REGULATIONS - WETLANDS PROTECTION

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Section 1 - Introduction and Purpose

A. Introduction. These regulations are promulgated by the Town of Arlington Conservations. Commission (the "Conservation Commission" or "Commission") pursuant to the authority granted to it under the Town of Arlington Wetlands Protection Bylaw (hereinafter referred to as the "Bylaw"). These regulations complement and impler the Bylaw and shall have the force of law upon their effective date. These regulation forth additional definitions, regulations, requirements, and performance standards necessary to protect the values and/or intent of the Bylaw; and protect additional Resource Areas and wetland values as well as specify standards and procedures st than those of the Massachusetts Department of Environmental Protection's Wetlan Protection Act, G.L. c. 131, § 40 and implementing regulations at 310 CMR 10.00. those exceptions provided in the Wetlands Protection Act and regulations (310 CM 10.00) explicitly stated in these regulations or bylaw apply. In addition to the Exen stated in the Bylaw, the Commission's jurisdiction under the Bylaw and these regu shall not extend to the uses and structures of agriculture that enjoy the rights and privileges of laws and regulations of the Commonwealth governing agriculture, inc work performed for normal maintenance or improvement of land in agricultural or aguacultural uses as defined in the Wetlands Protection Regulations, 310 CMR 10. The Riverfront Area shall not include land now or historically associated with histo mill complexes and shall not apply to any mosquito control work done under Chapt Section 5(36) or any special act.

The Limited Project Provisions at 310 CMR 10.53(3) apply under the bylaw and regulations.

The portion of these regulations concerning consultants and consultant fees are also promulgated pursuant to the authority granted the Commission under G.L. c. 44, §

B. Purpose. The Bylaw sets forth a public review and decision making process by whi activities affecting areas subject to protection under the Bylaw are to be regulated order to ensure the protection of the following interests: public or private water su ground water supply, flood control, erosion control and sedimentation control, stord damage prevention, other water damage prevention, prevention of pollution, prote surrounding land and other homes or buildings, wildlife protection, plant or wildlift habitat, aquatic species and their habitats, and the natural character or recreation of the wetland resources (collectively, "Resource Area Values" or "Interests of the Bylaw"). The purposes of these regulations are to define and clarify that process by establishing standard definitions and uniform procedures by which the Arlington Conservation Commission shall carry out its responsibilities under the Bylaw.

Section 2 - Jurisdiction

- A. Areas subject to protection under the Bylaw and these regulations:
 - (1) Any marsh, freshwater wetland, vernal pool, wet meadow, bog, swamp.
 - (2) Any river, stream, creek, pond, reservoir, or lake (including the water there
 - (3) Any bank of the areas set forth in A(1) or A(2) above.
 - (4) Any land under the areas set forth in A(2) above said waters.
 - (5) Any land within 100 feet of the areas set forth in A(1) or A(2) or A(3) above.
 - (6) Any riverfront area as hereinafter defined.
 - (7) Any land subject to flooding.
 - (8) Intermittent drainages/streams identified by the Commission.
- B. Activities subject to regulation under the Bylaw and the provisions of these regulat
 - (1) Any activity proposed or undertaken which constitutes removing, filling, dredging, discharging into, building upon, degrading, or otherwise altering a area specified in Subsection A of this Section is subject to regulation under the Bylaw and requires the filing of an application for permit.
 - (2) Any activity proposed or undertaken outside the areas specified in Subsection above shall not be subject to regulation under the Bylaw unless, in the judgm of the Conservation Commission, said activity may result or has resulted in the removing, filling, dredging, discharging into, building upon, degrading, or otherwise altering an area specified in Subsection A above. If anyone wishes have the Conservation Commission determine whether an activity may be sufficiently under the Bylaw, he or she shall submit a request for determination of applicability pursuant to Section 9 of these regulations.
 - (3) For stormwater management systems constructed per Massachusetts Depart of Environmental Protection's stormwater management policy (November 18 1996) or standards (January 2, 2008) or 310 CMR 10.05(6)(k) through (q), an activity proposed or undertaken within said stormwater management system

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includes the removal of only the accumulated sediment from a basin, water quality swale or constructed stormwater wetland (including forebays or othe forms of pretreatment) is not subject to these regulations.

Section 3 - Burden of Going Forward and Burden of P

- A. The applicant shall have the burden of going forward with credible evidence from competent source in support of all matters asserted pursuant to Subsection B belo applicant in accordance with his or her burden of proof.
- B. The applicant shall have the burden of proving by a preponderance of the credible evidence from a competent source that the work in the application will not have a significant or cumulative effect upon the wetland values protected by the Bylaw. For the meet the burden of proof shall be cause for the Conservation Commission to derapplication for permit along with any work or activity proposed therein.

Section 4 - Definitions

- A. Except as otherwise provided in the Bylaw or these regulations, the definitions of to in the Bylaw shall be as set forth in the Wetlands Protection Act, M.G.L. c. 131, Sec. 40, and its regulations, 310 C.M.R. 10.00.
- B. As used in these regulations, the following terms shall have the meanings indicate
 - (1) ABUTTER the owner of any land within 100 feet of the property line of the land where the activity is proposed, as determined by the most recent assess records including any land located directly across a street, river, stream, or that is within 100 feet of the project's limits of work.
 - (2) ACTIVITY on or in any area subject to protection by the Bylaw and its regulations: any form of draining, dumping, dredging, damming, discharging excavating, filling or grading; the erection, reconstruction or expansion of an buildings or structures; the driving of pilings; the construction or improveme roads and other ways; the changing of runoff characteristics; the intercepting diverging of groundwater or surface water; the installation of drainage, seward and water systems; the discharging of pollutants; the destruction of plant life cutting or removal of 20% or more of the growth or limbs of trees or vegetate and any other changing of the physical characteristics of land or the physical chemical characteristics of water; and alterations that impact the ability of the

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resource area to adapt to / be resilient to climate change impacts.

- (3) ADAPTATION measures undertaken to protect resource areas from the important of climate change and to protect the ability of resource areas to mitigate the impacts of climate change through providing the interests protected by the E (the resource area values and functions).
- (4) ADJACENT UPLAND RESOURCE AREA or AURA the area 100 feet horizontally lateral from the boundary of any of the following Resource Areas marsh, freshwater wetland, vernal pool, wet meadow, bog, swamp, bank, str creek, pond, reservoir, or lake, or resource area defined in Section 2.A(1) the (4).
- (5) ADMINISTRATIVE REVIEW the process through which projects may be reviewed and approved by the Conservation Agent rather than the full Commission, as further defined in Section 8.
- (6) ALTER to change the condition(s) of any area subject to protection by the Bylaw and shall include but not be limited to one or more of the following actupon the resource areas protected by this Bylaw:
 - fill, removal, excavation or dredging of soil, sand, gravel, or aggregat material of any kind;
 - changing of preexisting drainage characteristics, flushing characteristics, salinity distribution, sedimentation patterns, flow patterns or flood storage retention areas;
 - c. draining, disturbing, or lowering of the water level or water table;
 - d. the dumping, discharging, or filling with any material which could degrade the water quality;
 - e. driving of pilings, erection of buildings or structures of any kind;
 - f. placing of any object or obstruction whether or not it interferes with flow of water;
 - g. destruction, extensive trimming (defined as 20% or more of limbs or growth), or removal of plant life, vegetation, or trees;
 - h. changing of water temperature, biochemical oxygen demand, nutrien concentration or chemical concentration or other natural characterist of the receiving water;
 - i. any activities, changes or work which pollutes any stream or body of water, whether located in or out of the Town of Arlington;
 - j. application of pesticides and herbicides;

- k. any activity, change or work which adversely affects groundwater or drinking water supply;
- any activity, change or work which adversely impacts the ability of th resource area to be resilient to climate change impacts; or
- m. any incremental activity that has or may have a cumulative adverse effect on the Resource Area Values protected by the Bylaw.
- (7) APPLICANT a person filing a Request for Determination of Applicability or Notice of Intent or other application with the Commission.
- (8) AREA OF CRITICAL ENVIRONMENTAL CONCERN an area so designated by the Secretary of Energy and Environmental Affairs of the Commonwealth Massachusetts pursuant to regulations (301 C.M.R. 12.00), said designation due to the particular environmental factors which impact upon the areas in question, and which highlight the importance of each area so designated.
- (9) AREA SUBJECT TO PROTECTION UNDER THE BYLAW any area specified in Section 2(A). It is used synonymously with "resource area," each which is defined in greater detail in these regulations.
- (10) BANK the portion of the land surface which normally abuts and confines a water body, often between the mean annual low flow level and the first observable break in the slope or the mean annual flood level, whichever is low
- (11) BEST AVAILABLE MEASURES the most up-to-date technology or the best designs, measures or engineering practices that have been developed and th commercially or readily available.
- (12) BEST MANAGEMENT PRACTICES technologies, designs, measures, or engineering practices that are in general use to protect the resource area va the Bylaw including but not limited to those for climate change adaptation are resilience.
- (13) BORDERING any land within either of the following or the greater thereof
 - a. 100 feet horizontally lateral from the edge of any marsh, freshwater wetland, vernal pool, wet meadow, bog, swamp, river, stream, creek, pond, reservoir, or lake; or
 - b. within the maximum lateral extent of the water elevation of the statistical 100-year frequency storm.

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- (14) BOUNDARY the boundary of an area subject to protection under the Bylav description of the boundary of each area is found in the appropriate section these regulations or in the Bylaw.
- (15) BUFFER ZONE see definition for ADJACENT UPLAND RESOURCE AREA.
- (16) BYLAW Article 8 of Title V of the Bylaws of the Town of Arlington, Massachusetts, entitled "Wetlands Protection".
- (17) BYLAW INTERESTS are defined in Section 1, above; also known as Resour Area Values.
- (18) CALIPER diameter of a tree trunk (in inches) measured six inches above the ground for trees up to and including four-inch diameter, and 12 inches above ground for trees with a greater than four-inch diameter trunk. Also see "DBF tree trunk measurements.
- (19) CERTIFICATE OF COMPLIANCE a written determination by the Conservation Commission as to whether work or a portion thereof has been completed in accordance with the permit issued under the Bylaw governing work.
- (20) CLIMATE CHANGE a change in the state of the earth's climate that can be identified by statistical changes of its properties that persist for an extended period, typically decades or longer, whether due to natural variability or as a result of human activity. Climate change impacts can adversely impact resource afunctions.
- (21) COMPENSATORY FLOOD STORAGE a volume not previously used for flood storage, shall have an unrestricted hydraulic connection to the same waterway or water body, and, with respect to waterways, shall be provided we the same reach of the river, stream, or creek. Compensatory flood storage shall replaced at each elevation where flood storage is lost.
- (22) CONDITIONS those requirements set forth in a written permit issued by the Conservation Commission for the purpose of permitting, regulating, or prohibiting any activity that removes, fills, dredges or alters an area subject protection under the Bylaw.

- (23) CONSERVATION COMMISSION or COMMISSION that body in Arlington comprised of members lawfully appointed pursuant to M.G.L. c. 40, Section 8
- (24) CREEK the same as "stream."
- (25) CUMULATIVE EFFECT an effect that is significant when considered in combination with other activities that have occurred, are going on simultane or that are likely to occur, whether such other activities have occurred or are contemplated as a separate phase of the same project, such as the build-out subdivision or an industrial park, or unrelated but reasonably foreseeable ac including other development projects that are currently under construction, review or that may be expected to come forward.
- (26) CULTIVAR a variety of plant originating and persisting under horticultural cultivation (i.e., not a "Straight Species").
- (27) DATE OF ISSUANCE the date a permit, order, or determination is mailed, evidenced by a postmark, or the date it is hand-delivered.
- (28) DATE OF RECEIPT the date of delivery to an office, home, or usual place of business by mail or hand delivery.

(29) DETERMINATION:

- a. DETERMINATION OF APPLICABILITY a written finding by the Conservation Commission after a public hearing as to whether a site the work proposed thereon is subject to the jurisdiction of the Bylaw.
- b. DETERMINATION OF SIGNIFICANCE a written finding by the Conservation Commission, after a public hearing, that the area on wh the proposed work is to be done or which the proposed work will alte significant to one or more of the interests identified in and protected the Bylaw and these regulations.
- c. NOTIFICATION OF NONSIGNIFICANCE a written finding by the Conservation Commission, after a public hearing, that the area on which proposed work is to be done, or which the proposed work will alter, is not significant to any of the interests of the Bylaw.
- (30) DBH ("Diameter at Breast Height") the diameter (in inches) of the trunk of tree (or, for multiple trunk trees, the aggregate diameters of the multiple trunk measured 4 ½ feet from the existing grade at the base of the tree.

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- (31) DREDGE to deepen, widen or excavate, either temporarily or permanently
- (32) DROUGHT a period of abnormally dry weather long enough to cause a ser hydrological imbalance. Extended drought shall mean any period of four or months during which the average rainfall for each month is 50% or less of the year average for that same month.
- (33) EXTENSION PERMIT a written extension of time within which the authori work shall be completed.
- (34) EXTREME HEAT a period of high heat and humidity with temperatures ab 90°F for at least two consecutive days.
- (35) EXTREME WEATHER EVENT weather at the extremes of the historical distribution lying in the outermost 10 percent of a place's history, including not necessarily limited to droughts, high winds and microbursts, blizzards are storms, excessive precipitation, wildfires, tornadoes, and severe thunderstor hurricanes.
- (36) FILL To deposit any material so as to raise the elevation of land surface or ground, either temporarily or permanently.
- (37) FLOOD CONTROL the prevention or reduction of flooding and flood damaboth as currently expected to occur and as projected to occur based on the based available data regarding the impacts of climate change.
- (38) GROUNDWATER all subsurface water contained in natural geologic formations or artificial fill including soil water in the zone of aeration. Activit within 100 feet of resource areas shall not significantly alter the existing qua or elevation of naturally occurring groundwater.
- (39) GROWING SEASON The period of the year during which vegetation is undergoing active growth, typically from March through June.
- (40) IMMINENT RISK TO PUBLIC HEALTH AND SAFETY means a threat to public health or safety or property as confirmed in writing and submitted to Commission by the Arlington Tree Warden, Fire Department Representative, Public Safety Officer, or a certified arborist.

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- (41) IMPACTS OF CLIMATE CHANGE mean, but are not necessarily limited to (i) extreme heat (ii) the timing, frequency, intensity, and amount of precipita (iii) storm surges and rising water levels, (iv) increased intensity and/or frequency of storm events or extreme weather events, and (v) frequency, intensity, and duration of droughts.
- (42) IMPERVIOUS SURFACE any material or structure on, above, or below gro that prevents water from infiltrating through the underlying soil.
- (43) IN or WITHIN an area subject to protection under the Bylaw means in, thro under, over, cantilevered over, shading; does not require physical touching of area subject to protection. With respect to structures, "In" is measured from dripline of the roof or foundation or footing, whichever is closer to the resourance.
- (44) INTERESTS IDENTIFIED IN THE BYLAW those interests specified in Section 1 of the Bylaw and Section 1(B) of these regulations. Also called Byla Interests or Resource Area Values.
- (45) INTERMITTENT STREAM see definition of STREAM
- (46) ISSUING AUTHORITY the Arlington Conservation Commission.
- (47) LAKE any open body of fresh water with a surface area of 10 acres or mor shall include great ponds.
- (48) LAND SUBJECT TO FLOODING defined in Section 24.
- (49) LAND UNDER WATER BODIES AND WATERWAYS the bottom of or land under the surface of a creek, river, stream, pond, or lake. Land under water is further defined in Section 23.
- (50) LOT an area of land in one ownership, with definite boundaries. When an a of land is comprised of more than one lot, the lots share a common boundary are owned or controlled by the same entity or individual(s), and the lots commare used for the same purpose or enterprise, the Commission may consider that as a single LOT.

- (51) MARSH, FRESHWATER WETLAND, SWAMP, WET MEADOW, BOG defined in Section 22.
- (52) MEADOW (or WET MEADOW) defined in Section 22.
- (53) NATIVE PLANTS plants that have evolved and adapted to environmental a biological conditions in a specific geographic location
- (54) NOAA 14 point precipitation frequency estimate data compiled by the Nat Oceanic and Atmospheric Administration's ("NOAA") National Weather Serv (NOAA Atlas, Volume 10), used in evaluation/planning for stormwater infrastructure and management; NOAA 14 = mid-range of 90% confidence interval; NOAA 14 Plus = 0.9 x upper bound of 90% confidence interval; NOAA 14 Plus Plus = upper bound of 90% confidence interval. In the event NOAA 1 updated, the most recent published edition shall apply.
- (55) NOTICE OF INTENT (NOI) the written notice filed by an Applicant intenditoremove, fill, dredge or alter an area subject to protection under the Massachusetts Wetlands Protection Act, M.G.L. c. 131, Section 40, or the By or both.
- (56) ORDER an order of conditions, superseding order, or final order, whicheve applicable, issued pursuant to M.G.L. c. 131, Section 40 or the Bylaw, or both
- (57) OWNER OF LAND ABUTTING THE ACTIVITY the owner of land sharing a common boundary or corner with the site of the proposed activity in any direction, including land located directly across a street, way, creek, river, st brook, or canal.
- (58) PERMIT the document issued by the Conservation Commission pursuant to Bylaw which allows work in accordance with conditions set by the Commission in the resource areas protected by this Bylaw; also see "Order" in this definit section.
- (59) PERMIT DENIAL the document issued by the Conservation Commission pursuant to the Bylaw which disallows proposed work.
- (60) PERSON any individual, group of individuals, associations, partnerships, corporations, business organizations, trust, estate, Commonwealth of Massachusetts when subject to town Bylaws, any public or quasi-public

- corporation or body when subject to town Bylaws or any other legal entity, including the Town of Arlington or its legal representative, agents, or assigns
- (61) PERSON AGGRIEVED any person who, because of an act of failure to act I the Conservation Commission, may suffer an injury in fact which is different either in kind or magnitude from that suffered by the general public and which within the scope of the interests identified in the Bylaw.
- (62) PERVIOUS SURFACE any natural or constructed material or structure that allows water infiltration. Decking shall also be considered a pervious material provided one of the following soil types are below the decking: soils listed as Class I, II and III soils as defined in 310 CMR 15.243 and 15.244 based upon general soil classification used by the U.S. Department of Agriculture. "Pervipavers," "pervious asphalt," and other similar materials will only be considered pervious if a suitable design for the system as a whole is submitted and appropriate the constructed materials will be considered impervious.
- (63) PLANS such data, maps, engineering drawings, calculations, specification schedules, and other materials, if any, deemed necessary by the Conservation Commission to describe the site and/or work to determine the applicability of Bylaw or to determine the impact of the proposed work upon the interests identified in the Bylaw.
- (64) POND any open body of fresh water, either naturally occurring or man-ma impoundment or excavation, which is never without standing water due to no causes, except in periods of extended drought. Basins or lagoons which are p wastewater treatment plants, swimming pools or other impervious man-made retention basins shall not be considered ponds.
- (65) PREVENTION OF POLLUTION the prevention or reduction of chemicals (e.g., nutrients, hydrocarbons, solvents, metals, vapors) known or suspected causing harm to humans, plants, or animals via exposure to any media (air, v soil, sediment).
- (66) PRIVATE WATER SUPPLY any source or volume of surface or groundwate demonstrated to be in any private use or shown to have potential for private for domestic purposes.

- (67) PROJECT LOCUS the lot on which an applicant proposes to perform an activity subject to regulation under the Bylaw
- (68) PROJECT SITE the area within the Project Locus that comprises the limit of work for activities, including but not limited to, the dredging, excavating, filling grading, the erection, reconstruction or expansion of a building or structure, driving of pilings, the construction or improvement of roads or other ways, at the installation of drainage, stormwater treatment, environmentally sensitive design practices, sewage, and water systems.
- (69) PROTECTION OF FISHERIES protection of the capacity of an area subject protection under the Bylaw to prevent or reduce contamination or damage to and to serve as their habitat and nutrient source.
- (70) PROTECTION OF WILDLIFE the protection of any plant or animal species including but not limited to those listed as endangered, threatened or special concern, or on the Watch List by the Massachusetts Natural Heritage Progralisted as Federally Endangered or Federally Threatened by the U.S. Fish and Wildlife Service; deemed locally threatened, in writing, by the Conservation Commission; and means protection of the ability of any resource area to prove food, breeding habitat, shelter or escape cover and species falling within the definition of wildlife set forth in these regulations.
- (71) PUBLIC WATER SUPPLY any source or volume of surface water or groundwater demonstrated to be in public use or approved for water supply pursuant to M.G.L. c. 111, Section 160 by the Division of Water Supply of the Department of Environmental Protection or shown to have a potential for pulse.
- (72) QUORUM refers to the number of Commissioners who must be present be business may be transacted; here, it shall mean a majority of the number of Commissioners then in office.
- (73) REMOVE to take away any type of material, thereby changing the elevatio land surface or ground, either temporarily or permanently.
- (74) REQUEST FOR DETERMINATION OF APPLICABILITY (RDA) a written request made by any person to the Conservation Commission for a determinate as to whether a site or work thereon is subject to the Bylaw.

- (75) RESILIENCE the capacity to prevent, withstand, minimize, respond to, add to, and recover from adverse climate change impacts; to build capability and ability of the resource area to minimize and survive negative impacts of climate change to resource area values.
- (76) RESOURCE AREA is used synonymously with "area subject to protection under the Bylaw," each one of which is listed in the Bylaw and in Section 2 of these regulations.
- (77) RESOURCE AREA ENHANCEMENT with the Commission's prior approval removal or management of invasive species; removal of man-made debris, garbage, or trash; stabilization of bank or other resource area; or planting of invasive species of vegetation; or activities to enhance and increase climate change adaptation/resilience.
- (78) RESOURCE AREA VALUES collectively, "Resource Area Values" or "Interests of the Bylaw" may include but not be limited to the following: publ private water supply protection; ground water supply protection; flood control erosion and sedimentation control; storm damage prevention; pollution prevention; protection of surrounding land and other homes or buildings; will plant, and aquatic species protection; habitat protection; and protection of the natural character or recreational values of the wetland resources.
- (79) RIVER any natural flowing body of water that empties to any ocean, lake, reservoir, stream, or other river.
- (80) RIVERFRONT AREA the area of land between a river's mean annual highwater line and a parallel line measured 200 feet horizontally landward of the annual high-water line.
- (81) SIGNIFICANT shall mean plays a discernable role; e.g., a resource area is significant to an interest identified in the Act when it plays a role in the prove or protection, as appropriate, of that interest.
- (82) STRAIGHT SPECIES plants that have evolved and adapted to a specific location and have remained genetically unaltered by humans (i.e., not a "Cultivar"). See also "Native Plants".
- (83) STORM DAMAGE PREVENTION measures taken to mitigate the severity a consequence of a storm event on the resource area and the prevention of data

caused by water from storms, as currently occurs and is predicted by best available data to occur from the impacts of climate change, including but not limited to erosion and sedimentation, damage to vegetation, property or built or damage caused by flooding, waterborne debris, or waterborne ice.

(84) STREAM – a body of running water, including brooks and creeks, which movin a definite channel in the ground due to hydraulic gradient, and includes streamlets and rivulets. A portion of a stream may flow through a culvert or beneath a bridge. Such a body of running water which does not flow through the year (i.e., which is intermittent) is a stream.

No Name Brook, Coolidge Road Brook, and Ryder Brook are identified intermittent streams and have an associated AURA.

In addition, the Conservation Commission has determined that intermittent streams/drainages (other than the three identified above) upgradient of wetler resource areas subject to protection under the Bylaw are presumed significant the following Bylaw interests: flood control, storm damage control, drainage, water quality, and wildlife habitat. These intermittent streams do not have an AURA. These presumptions are rebuttable and may be overcome by a preponderance of the credible evidence that an intermittent stream does not significant role in the protection of those presumed interests.

- (85) STRUCTURE means a combination of materials or things arranged or constructed for permanent or temporary occupancy, shelter, or use, such as building, bridge, trestle, wireless communications facility, tower, rip rap associated with stormwater outfalls, framework, retaining wall, tank, tunnel, shed, stadium, reviewing stand, platform, swimming pool, sports court, shelt piers, wharves, bin, fence, sign, or the like.
- (86) TREE REMOVAL any act that will cause a tree to die within a three-year period.
- (87) VEGETATED WETLANDS defined in Section 22.
- (88) VULNERABILITY (to climate change impacts) the degree to which a resou area is susceptible to or predisposed to be adversely affected by climate chan impacts (including climate variability and extremes); as a function of exposus sensitivity, and adaptive capacity.

- (89) WITHIN see IN above.
- (90) WILDLIFE any non-domesticated mammal, bird, reptile, amphibian, fish, mollusk, arthropod or other invertebrate other than a species of the Class in which has been determined by the Commonwealth of Massachusetts or any agency thereof to be a pest whose protection under the provisions of the Byla would be a risk to man.
- (91) WILDLIFE HABITAT the area being used by or necessary to provide breed or nesting habitat, shelter, food, and water for any animal species.
- (92) WORK shall mean the same as "Activity."

Section 5 - Time Periods

A. All time periods of 10 days or less specified in the Bylaw and these regulations shall computed using business days only. In the case of a Determination or Order, such a shall commence on the first day after the date of issuance and shall end at the closs business on the 10th business day thereafter. All other time periods specified in the Bylaw and regulations shall be computed on the basis of calendar days, unless the day falls on a Saturday, Sunday or legal holiday, in which case the last day shall be next business day following.

Section 6 - Actions by Conservation Commission

- A. Where the Bylaw states that a particular action (except receipt of a request or not be taken by the Conservation Commission, that action is to be taken by more than the members present at a meeting of at least a quorum. A quorum is defined as a roof the members then in office.
- B. Where the Bylaw states that a determination, permit, or notification or certificate compliance shall be signed and issued by the Conservation Commission, that action be taken by the majority of the quorum present at a public meeting or hearing, or majority of the members then in office who need not convene as a body in order to said permit or notification, provided that the Commission met pursuant to the Oper Meeting Law, M.G.L. c. 30A, Sections 18 through 25, when voting on the matter.

C. Where the Bylaw states that the Conservation Commission is to receive a request notice, Conservation Commission means a member of the Conservation Commission an individual designated by the Conservation Commission to receive such request notice.

Section 7 - Working Sessions

- A. When the Commission has time available, as a matter of courtesy, it may, but is not required, to conduct a working session with any person seeking guidance or direct what type of application to file with the Commission, and what information the Commission might like to see in such an application in addition to that specified elsewhere in these regulations or the state Wetlands Protection Regulations. No or right to a working session.
- B. Any working session shall be held in accordance with the Open Meeting Law, M.G 30A, Sections 18 25.
- C. For any working session, notwithstanding the Plan requirements in Section 13, the following information at a minimum must be provided 10 days prior to the Working Session:
 - (1) a map or plan showing the location of the proposed work;
 - (2) photographs (minimum 5" x 7" size) of the area of the proposed work; and
 - (3) a sketch of the area of the proposed work, showing existing conditions (structure approximate locations of actual or potential resource areas).
- D. Statements by the Commission or any Commission member in a working session s not be construed as prejudging a project or guaranteeing a particular action by the Commission on a subsequent filing. The Commission shall not be bound any commor opinions offered at a working session. A person who relies on any statements or information provided at the working session does so at his or her own risk.

Section 8 - Conservation Agent Administrative Review Minor Projects or Work

- A. Introduction. Some projects are simple, small in scale, minor, or routine, and such projects involve very little activity or alteration in Resource Areas protected by the Bylaw and are not likely to have a significant or cumulative effect on the Resource Values protected by the Bylaw. Such projects may be reviewed and approved by the Conservation Agent rather than the full Commission.
- B. Applicability. If a project meets the criteria in Sections 8.C and 8.D below, or Sect below, the Applicant may apply for Administrative Review. The Administrative Rev process is defined in Section 8.F and work may be approved or denied under this p by the Conservation Agent. If the Conservation Agent has any doubt that a project these criteria, the Applicant shall be required to file a Request for Determination of Applicability or a Notice of Intent.
- C. A project must meet the following conditions for Administrative Review:
 - (1) The work is proposed only in the AURA or Riverfront Area and not in any oth Resource Area.
 - (2) Work is proposed to be conducted within an area of 5,000 square feet or less
 - (3) Work is not proposed within the first 25 feet of the AURA or Riverfront Area other than conversion of impervious surface to vegetated area provided eros and sedimentation controls are implemented during construction, and the wooverseen by a qualified professional. The qualified professional shall be appr by the Conservation Agent as is applicable to the project.
 - (4) The work shall not include the uprooting of non-invasive vegetation or mowing the ground or clear-cutting vegetation.
 - (5) Work will not adversely impact the climate change resilience functions of the project area.
- D. A project may obtain Administrative Approval by the Conservation Agent if it falls within one of the following activities and it meets the conditions listed in 8.C above
 - (1) Fencing, provided that it will be on existing lawn will not constitute a barrier wildlife movement and there are openings along the bottom at least 4 inches to allow wildlife movement; a sketch or survey of the property showing the proposed fence location must accompany the application.

- (2) Installation of dried laid (not mortared) stone walls and compacted gravel for provided they do not constitute a barrier to wildlife movement; a sketch or so of the property showing the proposed fence location must accompany the application.
- (3) Vista pruning of shrubs and trees.
- (4) Planting of native species of trees, shrubs, or groundcover, but excluding pla or expansion of lawn area.
- (5) The conversion of impervious surface to vegetated area, provided erosion an sedimentation controls are implemented during construction;
- (6) Activities that are temporary in nature, having negligible impacts, and are necessary for planning and design purposes (e.g., installation of monitoring of exploratory borings, sediment sampling, and surveying); a sketch or survey of property showing the proposed locations and resource areas must accompant application.
- (7) Pervious walkways of no more than 30 inches in width as long as no trees or shrubs will be removed.
- (8) Installation of underground utilities (e.g., electric, gas, water) within existing paved or unpaved roadways and private roadways/driveways, provided that a work is conducted within the roadway or driveway and that all trenches are at the completion of each workday and further provided that all vehicles and machinery are located within the roadway surface during work.
- (9) Installation and repair of underground sewer lines within existing paved or unpaved roadways and private roadways/driveways, provided that all work is conducted within the roadway or driveway and that all trenches are closed a end of completion of each workday and further provided that all vehicles and machinery are located within the roadway surface during work.
- (10) Installation of access road gates at public or private road entrances to exist utility right-of-way access roads, provided that all vehicles and machinery are located within the roadway surface during work.
- (11) Removal of existing utility equipment (poles, anchors, lines) along existing of approved roadways or within existing or approved electric, water or gas facilities.

provided that all vehicles and machinery are located within the roadway surf during work.

- (12) Vegetation cutting for road safety maintenance.
- (13) Installation, repair, replacement or removal of signs, signals, sign and signal and associated supports, braces, anchors, and foundations along existing particle roadways and their shoulders, provided that work is conducted as far from resource areas as practicable, any excess soil is removed from the project located any disturbed soils are stabilized daily.
- (14) The repair or replacement of an existing and lawfully located driveway served not more than two dwelling units provided that all work remains within the existing limits of the driveway and all surfaces are permanently stabilized with 10 days of final grade.
- (15) Structures and activities subject to a M.G.L. c. 91 waterways license or perauthorized prior to 1973 by a special act, provided the structure or activity is subject to jurisdiction and obtains a license, permit, or authorization under 3 CMR 9.00: Waterways.
- E. Notwithstanding the foregoing, the Agent may provide Administrative Approval of maintenance plantings and invasive plant management provided it is done by hand native plants are planted in the same area. The Conservation Agent shall determine whether erosion and sedimentation controls are to be implemented and, if so, the conservation in place until the area is restabilized.

F. Procedure:

- (1) The Applicant shall complete and submit the Request for Administrative Reviews Form that shall contain sufficient information to determine where the project work is proposed and whether it meets the requirements set forth in this sec
- (2) The Applicant must provide a complete written description of all the work proposed and protective or mitigation measures proposed.
- (3) The Conservation Agent shall visit the site and the boundaries of Resource Amust be clearly evident to the Conservation Commission and deemed sufficience credible by the Conservation Agent.

- (4) The Conservation Agent shall determine whether the project or work meets to criteria listed in Sections 8.C and 8.D or Section 8.E, above.
- (5) The Conservation Agent shall issue or deny an Administrative Approval within 10 Conservation Agent days of receipt of the Request for Administrative Review Form that fulfills the information requirements of this section.
- (6) The Conservation Agent may approve the work as proposed, approve it with conditions, or deny the work.
- (7) The decision will be filed in the Conservation Department and a copy provide the Applicant.
- (8) The Conservation Agent shall maintain an up-to-date list of projects approved denied under Administrative Review with the Commission.
- G. Appeal. The decision rendered by the Conservation Agent may be appealed by the seeking Administrative Review by filing a Request for Determination of Applicability
- H. Duration. Administrative Review Decisions shall be valid for three years from the issuance.

Section 9 - Determination of Applicability

- A. Requests for Determination of Applicability (RDA).
 - (1) Any person who desires a determination as to whether the Bylaw applies to lor to work that may affect an area subject to protection under the Bylaw, may submit to the Conservation Commission electronically and by certified mail, regular mail, or hand delivery a written Request for a Determination of Applicability (RDA) and other application materials in accordance with the submittal requirements set forth in the filing guidelines for requests for determination of applicability provided in these regulations. Said person shall provide the number of paper copies as set forth in the filing guidelines of the Commission.
 - (2) Simultaneously with filing the RDA, the applicant shall provide notification to each abutter by hand delivery or first-class mail, postage prepaid. An affidave specifying how and when abutter notice was made shall accompany the RDA. The contents of the abutter notification shall be specified by the Commission

shall, at a minimum, provide a brief description of the proposed work (if any) identify resource areas involved, list the location (street address, assessors le map identifiers), specify where a copy of the request may be obtained, and the date, time, and place of the hearing.

- (3) Said request shall include sufficient information as is defined in Section 13 to enable the Conservation Commission to find and view the area and determin whether the proposed work will alter an area subject to protection under the Bylaw.
 - a. The RDA shall include certification that the owner of the area subject the request, if the person making the request is not the owner, has be notified in writing via certified mail, return-receipt requested that a determination is being requested under the Bylaw.
 - b. The RDA shall be filed with the Commission no fewer than 10 days prior to the Commission's next meeting and simultaneously copies of the request for determination of applicability shall be hand delivered mailed to each Commission member (including associate members). Failure to meet such filing and distribution deadline shall be cause fo the Commission to continue or defer discussion of the request for determination to the following meeting.
- (4) Determination of Applicability.
 - a. Within 21 days after the date of receipt of the RDA, the Conservation Commission shall hold a public hearing on the request for a determination of applicability. Notice of the time and place of the public meeting at which the determination will be made shall be given by the Conservation Commission at the expense of the person making the request not less than five business days prior to such meeting, by publication in a newspaper of general circulation in the Town of Arlington, and by mailing a notice to the person making the request, property owner if not the applicant. The Commission will forward the notice of this hearing to the Town Manager, Board of Selectmen, Tow Clerk, Planning Department, Town Counsel, Department of Public Works, Town Engineer, Zoning Board of Appeals, Board of Health, Building Inspector, and the Redevelopment Board. Notice shall also be given in accordance with the Open Meeting Law, M.G.L. c. 30A,

Sections 18 - 25.

- b. Said determination shall be signed and issued by the Conservation Commission, and copies thereof shall be sent by the Conservation Commission to the person making the request and to the owner within 21 days of the close of the public hearing or any continuances thereof Said determination shall be valid for three years from date of issuance and may not be extended or renewed.
- c. The Conservation Commission shall find that the Bylaw applies to the land, or a portion thereof, if it is an area subject to protection under to Bylaw as defined in Section 2(A) above. The Conservation Commission shall find that the Bylaw applies to the work on the portion thereof, if is an activity subject to the regulations under the Bylaw as defined in Section 2(B) above.
- d. An application for permit shall be filed in the event of a positive determination, and all procedures set forth in Section 11 shall apply.
- e. Request for Determination of Applicability *vs.* Notice of Abbreviated Resource Area Delineation. No Request for Determination of Applicability or Determination of Applicability shall be used to evalua or confirm the delineation of any Resource Area.

Section 10 - Emergency Certification

A. Any person requesting permission to perform an emergency project, or within 24 l commencing an emergency project, shall specify in writing the Imminent Risk to P Health and Safety, why the project is necessary for the protection of the health or of the citizens of the Town and what agency of the Commonwealth (or subdivision thereof) or Town entity is to perform the project or has ordered the project to be performed. Work may not proceed unless the Commission or its Agent has certified work to be necessitated by an emergency. In no case shall work or alteration by su certification extend beyond the minimum amount of work and time necessary to all emergency. If the project is certified to be an emergency by the Conservation Commission, its Agent, its Chair or Vice Chair, or the Department of Environmental Protection, the certification shall include a description of the work which is to be performed and shall not include work beyond that necessary to abate the emergen practicable, a site inspection shall be made prior to certification. If issued by the

Conservation Agent, the emergency certification must be ratified at the next meeti the Conservation Commission.

- B. An emergency certification may be issued by the Conservation Commission Chair, Chair, or Conservation Agent and shall be issued only for the protection of public by or safety.
- C. The time limitation for performance of emergency work shall not exceed 30 days, days for Immediate Response Actions approved by the Bureau of Waste Site Clean (BWSC) of the Department of Environmental Protection in accordance with the provisions of 310 CMR 40.0410. The emergency certification may be extended for additional 15 days only for good cause.
- D. In appropriate circumstances, the Commission may require that within 14 days of issuance of an emergency certification, a Notice of Intent/permit application shall by the recipient of the emergency certification with the Conservation Commission review as provided by the Bylaw and these Regulations.
- E. Upon failure to meet the requirements of this section and other requirements of th Conservation Commission, the Conservation Commission may, after notice and a p hearing, revoke or modify an emergency certification and order restoration and mi measures.

Section 11 - Notice of Intent/Application for Permit

A. Any person who proposes to do work or activity that will remove, fill, dredge or otherwise alter any area subject to protection under the Bylaw shall submit an application, including photos, flood plain elevations, and figures of the existing conditions and proposed work with resource areas delineated, plans to avoid imparto mitigate for unavoidable impacts, as applicable, called a Notice of Intent (NOI), permit on forms specified by the Conservation Commission and in conformance wire plan requirements in Section 13. Simultaneously with filing the Notice of Intent wire Commission or its Agent, an applicant shall provide an electronic copy of the application to the Commission and provide the number of paper copies specified by the Conservation and said paper copies shall be provided with envelopes with sufficient first-copostage, prepaid, for mailing (by the Agent) of such copies to Commission member Failure to provide the specified number of paper copies or electronic copies shall be grounds for the Commission to continue the public hearing without the applicant's consent. Simultaneously with filing the Notice of Intent, the applicant shall provide

notification to each abutter by hand delivery or certified mail, return receipt reque The contents of the abutter notification shall be specified by the Commission and s a minimum, provide a description of the proposed work, location (street address a assessor's map and lot identifier), where a copy of the request may be obtained, ar date, time, and location of the hearing.

- B. Upon receipt of the application materials referred to in Section 11.A above, the Conservation Commission shall assign a file number, which file number shall be the issued by the Department of Environmental Protection ("DEP") for a Notice of Intervalso submitted under the Wetlands Protection Act. The DEP will notify the applicant the file number. The designation of file number shall not imply that the plans and supporting documents have been accepted or judged adequate for the issuance of and does not prevent the Commission from requesting additional information at a time. For a Notice of Intent under the Bylaw only (i.e., not also filed under the Wetlands Protection Act), the Commission shall issue a file number.
- C. If only a portion of a proposed project or activity lies within an area subject to prounder the Bylaw and the remainder of the project or activity lies outside those area aspects of the project must be described, provided also that in such circumstances Notice of Intent shall also contain a description and calculation of peak flow and estimated water quality characteristics of discharge from a point source (both clos open channel), when the point of discharge falls within an area subject to protection under the Bylaw.
- D. A public hearing shall be held by the Conservation Commission within 21 days of a of the complete Notice of Intent. Notice of the time and place of the public meeting which the determination will be made shall be given by the Conservation Commiss the expense of the person making the request not less than five business days prior such meeting, by publication in a newspaper of general circulation in the Town of Arlington, and by mailing a notice to the person making the request, the property of if not the Applicant. The Commission will forward the notice of this hearing to the Manager, Board of Selectmen, Town Clerk, Planning Department, Town Counsel, Department of Public Works, Town Engineer, Zoning Board of Appeals, Board of Health, Building Inspector, and the Redevelopment Board. Notice shall also be given accordance with the Open Meeting Law, M.G.L. c. 30A, Sections 18 25.
- E. An Abbreviated Notice of Resource Area Delineation may be filed to confirm the delineated boundary of Vegetated Wetland or other Area Subject to Protection Uno Bylaw on the site. If utilized, an applicant must file an Abbreviated Notice of Resource Delineation prior to filing a Notice of Intent. Alternatively, the boundary of a

Resource Area may be determined through the filing of a Notice of Intent. The procedures for a Notice of Intent shall be used for an Abbreviated Notice of Resource Delineation. Consistent with Section 6 of the Bylaw, "Applicant's Obligation", applicant shall have the burden of proving by a preponderance of the credible evid from a competent source that the delineation of Vegetated Wetland or other Area Sto Protection Under the Bylaw is accurate.

- F. If the Commission determines that the applicant incorrectly or incompletely deline Resource Area(s), the Commission shall request that the applicant provide the correct delineation or missing information. If the correct delineation or missing information not provided, the Commission shall close the hearing and issue a denial Order of Resource Area Delineation or denial Order of Conditions within 21 calendar days, specifying each Resource Area that is incorrectly or incompletely delineated. The Commission shall have the authority to deny any proposed Resource Area delineate when: 1) the application is incomplete; 2) the delineation is incorrect; or 3) the Commission requires additional information that is not provided by the applicant.
- G. Review period. Resource area boundary delineations shall be reviewed only betwee April 1 and December 1 of each year, except if DEP has issued a notice of drought conditions for our area. Delineations may not be performed during drought conditional Delineations may be reviewed at the sole discretion of the Commission between December 1 and April 1 and shall be reviewed only when site conditions are such to Commission believes it can adequately review the relevant resource area indicator soils, vegetation, topography, hydrology).

Section 12 - Filing Fees, Consultants, & Consultant Fe

A. Filing Fees

- (1) The requirements of this section shall be commensurate with the nature, scotype, and cost of the proposed project or activity.
- (2) Rules:
 - a. Permit fees are payable at the time of application and are nonrefunda
 - b. Permit fees shall be calculated by the Conservation Commission per t Bylaw.

- c. Town, county, state, and federal projects are exempt from fees.
- d. Upon request and demonstration of a compelling reason to do so, whi circumstances the Commission anticipates shall be rare, the Commiss in its sole discretion may grant a waiver or variance from, or reduction of, Permit fees.
- e. These fees are in addition to the fees paid under M.G.L. Ch. 131, s.40 (the Wetlands Protection Act).

(3) Categories

Category	Fee	
RDA	\$150 local fee, no state fee	
Minor Project	\$200 (house addition, tennis court, swimming pool work, work in/on/or affecting any body of water, w floodplain).	-
Single Family Dwelling	\$600	
Multiple Dwelling Struct	u\$600 + \$100 per unit all or part of which lies with of wetlands or within land subject to flooding.	in 100 feet
Commercial, Industrial, a Institutional Projects	subject to flooding disturbed.	s.f. land
Subdivisions	\$600 + \$4/l.f. feet of roadway sideline within 100 wetlands or within land subject to flooding.	ft. of
Other Fees	Copies, printouts; per public records law	
Minor Project Change	\$50	
Work on Docks, Piers, Revetments, Dikes, etc.	\$4 per linear foot	
Resource Boundary Delineation (ANRAD)	\$1 per linear foot	

Certificate of Compliance (COC)	No charge if before expiration of Order, \$200 if wi years of expiration, \$300 if after that date.	thin two
Partial Certificate of Compliance	\$200 if before expiration of Order or if within two expiration, \$300 if after that date.	years of
Amendments	\$300 or 50% of original local filing fee, whichever	is less.
Extensions	a. Single family dwelling or minor project - \$10b. Other - \$150.	0.
Consultant Fee	Per estimate from consultant	

B. Consultants and Consultant Fees

(1) Upon receipt of a Notice of Intent, Abbreviated Notice of Resource Area Delineation, or Request for Determination of Applicability, or at any point du the hearing process, the Commission is authorized pursuant Bylaw § 16(B)(1 well as, independently, to G.L. Ch. 44, § 53G to require an applicant to pay a for the reasonable costs and expenses borne by the Commission for specific expert engineering and other consultant services deemed necessary by the Commission to come to a final decision on the application. The fee is called the "Consultant Fee."

C. Consultant and Consultant Fees pursuant to G.L. Ch. 44, § 53G

(1) Purpose. As provided by G.L. Ch. 44 §53G, the Town of Arlington Conservation Commission may impose reasonable fees for the employment of outside consultants, engaged by the Conservation Commission, for specific expert services. Such services shall be deemed necessary by the Commission to coma final decision on an application submitted to the Conservation Commission pursuant to the requirements of the Wetlands Protection Act (G.L. Ch. 131 §4 the Arlington Wetlands Protection non-zoning wetlands bylaw, Conservation Commission Act (G.L. Ch. 40 §8C), or any other state or municipal statute, bylaw, or regulation, as they may be amended or enacted from time to time. Conservation Commission may also impose fees for other consultant services related to application review, or permit conditioning or monitoring, under an

the above-referenced laws or regulations.

- (2) Special Account. Funds received pursuant to these rules shall be deposited with Town of Arlington Treasurer who shall establish a special account for this purpose. Expenditures from this special account may be made at the direction the Conservation Commission without further appropriation as provided in GCh. 44 §53G. Expenditures from this account shall be made only in connection with a specific project or projects for which a consultant fee has been collect from the applicant. Expenditures of accrued interest may also be made for the purposes.
- (3) Consultant Services. Specific consultant services may include but are not lim to resource area survey and delineation, analysis of resource area values, hydrogeologic and drainage analysis, impacts on municipal conservation land and environmental or land use law. Services may also include on-site monitor during construction, or other services related to the project deemed necessa the Commission. The consultant shall be chosen by, and report only to, the Commission and/or its administrator.
- (4) Notice. The Conservation Commission shall give written notice to the application of an outside consultant. Such notice shall state the identity of consultant, the amount of the fee to be charged to the applicant, and a requestive payment of said fee in its entirety. Such notice shall be deemed to have been given on the date it is mailed (via first-class mail) or delivered. No such costs expenses shall be incurred by the applicant if the application or request is withdrawn within five days of the date notice is given.
- (5) Payment of Fee. The fee must be received prior to the initiation of consulting services. The Commission may request additional consultant fees, if necessary when review requires a larger expenditure than originally anticipated or new information requires additional consultant services. Failure by the applicant the consultant fee specified by the Commission within ten (10) business days the request for payment, or refusal of payment, shall be cause for the Committo deny the application based on lack of sufficient information to evaluate when the project meets applicable performance standards in 310 CMR 10.00 or the Arlington Wetlands Protection Bylaw or its regulations. An appeal stops the content above deadline; the countdown resumes on the first business day after appeal is either denied or upheld. A denial for lack of information may be based on the lack of the third-party consultant review identified as necessary the Commission. The Commission shall specify in its denial the nature of the

information lacking which its chosen consultant would provide, e.g., the quest the eds answered. Failure by the applicant to pay the consultant fee specifie the Commission within ten (10) business days of the request for payment sha cause for the Commission to deny the permit application submitted under the Arlington Wetlands Protection Bylaw.

- (6) Appeals. The applicant may appeal the selection of the outside consultant to Arlington Select Board, who may only disqualify the outside consultant selection on the grounds that the consultant has a conflict of interest or does not possed minimum required qualifications. The minimum qualifications shall consist of either an educational degree or three or more years of practice in the field at or a related field. Such an appeal must be in writing and received by the Arling Select Board and a copy received by the Conservation Commission, so as to be received within ten (10) days of the date consultant fees were requested by the Conservation Commission. The required time limits for action upon the application shall be extended by the duration of the administrative appeal.
- (7) Return of Unspent Fees. When the Commission's review of a project is compand an Order of Conditions, Determination of Applicability, or Order or Reso Area Delineation is issued, any balance in the special account attributable to project shall be returned within 30 days. The excess amount, including interest shall be repaid to the applicant or the applicant's successor in interest. For the purpose of this regulation, any person or entity claiming to be an applicant's successor in interest shall provide the Commission with appropriate documentation. A final report of said account shall be made available to the applicant or applicant's successor in interest.

D. Consultants and Consultant Fee pursuant to Bylaw § 16(B)(11)

- (1) Pursuant to Bylaw § 16(B)(11) and independent from the Commission's authorized under G.L. Ch. 44, § 53G, the Commission is authorized to require an application pay for the reasonable costs and expenses borne by the Commission for specton consultant services deemed necessary by the Commission to come to a decision the application.
- (2) The specific consultant services may include, but are not limited to, performing verifying the accuracy of a resource area survey and delineation, analysis of resource area functions, including but not limited to wildlife habitat evaluation hydrogeologic and drainage analysis, and advice on environmental or land us

law and legal issues.

- (3) The Commission may require the payment of the Consultant Fee at any point its deliberations prior to a final decision. Failure by the applicant to pay the Consultant Fee specified by the Commission within five (5) business days of t request for payment shall be cause for the Commission to deny issuance of a permit or other requested action.
- (4) The applicant shall pay the fee to be put into a revolving fund, which may be drawn upon by the Commission for specific consultant services approved by Commission at one or more of its public meetings. The consultant shall be cheby, and report only to, the Commission or its designee.
- (5) The exercise of discretion by the Commission in making its determination to require payment of a Consultant Fee shall be based upon its reasonable findit that additional information acquirable only through outside consultants would necessary for the making of an objective decision.
- (6) The Commission shall return any unused portion of the Consultant Fee to the applicant unless the Commission decides at a public meeting that other furth additional or different services of the consultant are necessary to make an objective decision. Any applicant aggrieved by the imposition of or size of the Consultant Fee, or any act related thereto, may appeal according to the prov of the Massachusetts General Laws.

Section 13 - Plan Requirements

A. Introduction. Plans shall describe the proposed activity and its effect on the environment of the environment of the shown for all natural features such as large trees, watercourse water bodies, wildlife habitat and similar community assets. The following items in Section 13.B are set out as a minimum standard. The applicant may submit, or be required to submit, any further information that will assist in the Commission's revand that is deemed necessary to determine the proposed effect on the interests proby the Bylaw. The Conservation Commission may waive any of these plan requirement deems insignificant or irrelevant for a particular project.

B. Required Details

- (1) All plans submitted with a Notice of Intent application must (as applicable):
 - a. Be to scale (one inch equals 40 feet maximum), excluding drawings submitted as part of a Request for Determination of Applicability.
 - b. Include the title designating the name of the project, location, the name(s) of the person(s) preparing the drawings and the date prepare including all revision dates.
 - c. Include an eight-and-one-half-inch-by-eleven-inch reproduction of the USGS quadrangle sheet showing the project locus, and in the case where the project requires two or more plans to show the locus, an eight-and one-half-inch-by-eleven-inch sheet clearly identifying the proposed sit and work in addition to the labeled boundaries of the resource areas.
 - d. Delineate the boundary and location of all Resource Areas protected the Bylaw on the project site and within 100 feet.
 - e. Delineate all alterations proposed in or adjacent to all Resource Areas and explain all activity in footnotes.
 - f. Show the twenty-five (25), fifty (50) and one hundred (100) feet distance from the resource areas listed in Section 2.A(1) through (4) at (8), as well as the two hundred (200) foot Riverfront Area.
 - g. Display calendar dates of measurements, samplings, contours and so forth should appear with such data. Datum shall be stated in NAVD 8 base. The contour interval shall be no greater than two feet.
 - h. Indicate existing and final contours and contour interval used, include pond bottom and stream invert contours.
 - i. Indicate locations and elevations of sills and bottom of foundation(s) a septic system(s) (if any).
 - j. Indicate soil characteristics in representative parts of property, included the depth of peat and muck in wetlands.

- k. Indicate locations, sizes and slopes of existing and proposed culverts pipes.
- l. Include cross-section of all wetlands, showing slopes, bank and bottom treatments for wetland creation or replication.
- m. Include existing and proposed water storage capacity of the property including calculations and data on which the capacity is based for projects in land subject to flooding.
- n. Determine the effect of loss of storage on downstream channels and culverts if filling is proposed.
- o. Indicate location and elevation of benchmark used for survey.
- p. Indicate existing trees, stone walls, fences, buildings, historic sites, reridges and outcroppings.
- q. Indicate invert elevations on catch basins.
- r. Indicate proposed on-site pollution control devices, such as hooded catch basins, oil absorption pillows, detention/retention basins, flow dissipaters, or vegetative buffers.
- s. Show locations/details of erosion control devices.
- t. Include the Assessors Map and Lot number(s).
- u. Indicate location(s) of Area(s) of Critical Environmental Concern, if any.
- v. Show intermittent streams/drainages that are present on the property
- (2) All or a subset of these materials may be required for a Request for Determine of Applicability, Abbreviated Notice of Resource Area Delineation, or Abbreviated Notice of Intent, as determined in consultation with the Conservagent.

C. Stamps and Certifications

- (1) The Commission may require that plans and calculations be prepared and start by a registered professional engineer or a registered land surveyor of the Commonwealth of Massachusetts when, in the Commission's judgment, the proposed work warrants such professional certification. The Commission may also require preparation and submission of supporting materials by other professionals including, but not limited to, registered landscape architect, environmental scientist, geologist, or hydrologist when in its judgment the complexity of the proposed work and/or the wetland values of the Resource A warrants the relevant specialized expertise. Submitted materials may be use the Commission to evaluate the effects of the proposed project/work on wetlated and compliance with these regulations. Submission of requested materials not imply approval of the project.
- D. The Commission reserves the right to administer the requirements of this section is sole discretion commensurate with the nature, scope, type, and cost of the propose project or activity.

Section 14 - Area to be Staked Prior to Site Inspection

- A. Upon request of the Conservation Commission or the Conservation Agent, the follo conditions shall be met in advance of site inspection:
 - (1) Stakes shall be provided as follows:
 - a. Stakes indicating the corners of houses or other structures nearest the wetland resource area.
 - b. Stakes indicating the septic tank and the leaching field location.
 - c. Stakes indicating the limit of work.
 - (2) Lot number or house number should be posted at location.
 - (3) Edges of all resource areas shall be delineated. (Please refer to rules and regulations for definitions.)
 - (4) Directions shall be made available to the Commission to locate property.
- B. Failure to have the lot staked may result in no review and thus delay of a project.

- C. Upon completion of staking, the Conservation Agent shall be notified, and a site inspection shall be arranged.
- D. The requirements of this section shall be met commensurate with the nature, scop and cost of the proposed project or activity.

Section 15 - Public Hearings

A. A public hearing shall be held by the Conservation Commission within 21 days of rof the complete Request for Determination of Applicability, Abbreviated Notice of Resource Area Delineation, Abbreviated Notice of Intent or Notice of Intent and shadvertised by the Commission at the applicant's expense in accordance with the By (Section 5) and the requirements of the Open Meeting Law, M.G.L. c. 30A, Section 25. Abutter notification of said hearing shall be done by and at the expense of the applicant at the time of filing the Request for Determination of Applicability, Abbreviated Notice of Resource Area Delineation, Abbreviated Notice of Intent or Notice of Intent. Notice of the time and place of the public hearing shall be not less five business days prior to such meeting, by publication in a newspaper of general circulation in the Town of Arlington, and by mailing a notice to the person making request, the property owner if not the applicant. The Commission will forward the of this hearing to the Town Manager, Board of Selectmen, Town Clerk, Planning Department, Town Counsel, Department of Public Works, Town Engineer, Zoning I of Appeals, Board of Health, Building Inspector, and the Redevelopment Board.

B. Continued hearings.

- (1) Public hearings may be continued as follows:
 - a. Without the consent of the applicant to a date certain announced at the hearing should the applicant or the applicant's representative fail to provide at least ten (10) calendar days prior to that scheduled meeting/hearing sufficient abutter notification, newspaper notification an electronic copy or a sufficient number of paper copies specified by the Conservation Agent of any written information or documents intended for discussion at a meeting/hearing, or fail to provide to the Commission office or Agent envelopes with sufficient first-class postage, prepaid, for mailing of such copies to Commission members.

- b. Without the consent of the applicant to a certain date announced at the hearing either for receipt of additional information offered by the applicant or others or for information required of the applicant deem necessary by the Conservation Commission at its discretion;
- c. With the consent of the applicant, to an agreed-upon date, which shall announced at the hearing.
- d. Without the consent of the applicant, for lack of receipt of the DEP fil number, to certain date announced at the hearing;
- e. Without the consent of the applicant, for failure to pay the Consultant Fee pursuant to Section 11 of the Bylaw or pursuant to G.L. Ch. 44, § 53G, to a date certain announced at the hearing.
- f. Without the consent of the applicant, for failure to pay the filing fee pursuant to Section 11 of the Bylaw, to a date certain announced at the hearing.
- (2) The date, time, and place of any such continued hearing shall be publicized in accordance with the Open Meeting Law, and notice shall be sent by the applitude of any person at the hearing who so requests.

Section 16 - Issuance of Permit

- A. Within 21 days of the close of the public hearing or any continuance thereof on a F for Determination of Applicability, Abbreviated Notice of Resource Area Delineation Abbreviated Notice of Intent or Notice of Intent application for a permit, the Conservation Commission shall:
 - (1) Make a determination that the area on which the work is proposed to be don on which the proposed work will remove, fill, dredge, discharge into, build up degrade, or otherwise alter, is not significant to any of the interests identified the Bylaw, and shall so notify the applicant;
 - (2) Make a determination that the area on which the work is proposed to be don on which the proposed work will remove, fill, dredge or alter, is significant to or more of the interests identified in the Bylaw and issue a permit for the protection of said interests;

- (3) Make a determination that the proposed work fails to meet the design specifications, performance standards, or other requirements of the Bylaw, in regulations, or policies of the Commission, or that the project fails to avoid of prevent unacceptable significant or cumulative effects upon the resource are values of the Bylaw, or that there are no conditions adequate to protect said values; or
- (4) The Conservation Commission may issue a permit denial if it finds that the information submitted by the applicant is not sufficient to describe the site, t work, or the effect of the work on the interests identified in the Bylaw. The p shall specify the information which is lacking and why such information is necessary. If the Commission issues a permit denial, no work may occur unti applicant reapplies and the Commission grants a permit allowing work.
- B. A permit allowing the proposed work shall impose such conditions that are necess the judgment of the Conservation Commission for the protection of those areas for be significant to one or more of the interests identified in the Bylaw. Such a condit may include but are not limited to the placement of permanent bounds (granite or to demarcate all or part of a resource area or mitigation area.
- C. The permit shall be valid for three years from the date of its issuance, or a shorter period, at the sole discretion of the Conservation Commission.
- D. The permit shall be signed and issued by the Conservation Commission and shall a mailed or hand-delivered to the applicant, his or her agent or attorney.
- E. A copy of the plans describing the work and the permit shall be kept on file by the Conservation Commission and shall be available to the public at reasonable hours.
- F. Prior to the commencement of any work permitted or required by the permit, the permit shall be recorded in the Registry of Deeds or the Land Court and proof thereof subto the Conservation Agent. In the case of recorded land, the permit shall also be not the Registry's Grantor Index under the name of the owner of land upon which the proposed work is to be done. In the case of registered land, the permit shall also be on the Land Court Certificate of Title of the owner of the land upon which the proposed work is to be done. Certification of recording shall be sent to the Conservation Commission within two weeks of recording. If work is undertaken without the applifirst recording the permit, the Conservation Commission may issue an enforcement

- G. Prior to the commencement of any work permitted or required by the Order and P the Conservation Commission may, as part of a permit allowing work, require that performance and observance of the conditions imposed under the Order and Perm secured by a bond and/or covenant. As the holder of said bond and/or covenant, the Conservation Commission may undertake any work necessary to meet the requirer of said performance and conditions.
- H. The Commission may require the placement of permanent signage and/or bounds granite or metal) to demarcate all or part of a resource area or vegetation mitigati

Section 17 - Extension of Permit

- A. The Conservation Commission may extend a permit for a period of up to an additional three-year period from date of issuance. No permit may be extended for more than years from the date first issued. The request for an extension shall be made to the Conservation Commission at least 30 days prior to the expiration of the permit. The Commission shall hold a public hearing in accordance with the Bylaw and these regulations within 30 days of receipt of said request. Should said public hearing be continued past the date of the expiration of the permit, the expiration date shall be to the date on which the Commission votes on whether to extend the permit, should Commission vote not to grant the request for permit extension.
- B. The Conservation Commission may deny the request for an extension and require filing of a new application for permit for the remaining work in the following circumstances:
 - (1) Where no work has begun on the project, except where such failure is due to unavoidable delay, such as appeals and in the obtaining of other necessary permits;
 - (2) Where new information, not available at the time the permit was issued, has become available and indicates that the permit is not adequate to protect the resource area values identified in the Bylaw;
 - (3) Where incomplete work is causing damage to the resource area values identifing the Bylaw;

- (4) Where work has been done in violation of the permit or the Bylaw or these regulations; or
- (5) Where resource areas have changed.
- C. If issued by the Conservation Commission, the extension permit shall be signed by majority of the quorum of the members of the Conservation Commission present.
- D. The extension permit shall be recorded in the Land Court or the Registry of Deeds whichever is appropriate. If work is undertaken without the applicant recording th extension permit, the Conservation Commission may issue an enforcement order o itself record the extension permit.

Section 18 - Project Changes and Permit Amendment

A. In the event a permittee seeks to make any change to a permitted project or other Commission determination, the Applicant shall consult with the Conservation Agent who may approve the change or require review by the full Commission. Any such requested modification shall have the same or less impact on the resource area val protected by the Bylaw as the approved work. If the Conservation Agent decides the requested change is significant enough to warrant Commission review, then the for procedures shall be followed. No amended permit shall be issued for a permit that expired.

B. Procedure:

- (1) An applicant shall make a request for an amendment to the Conservation Commission. The request shall be either orally at a regularly scheduled meet of the Commission or by submitting the request to the Commission in writing which such request shall be discussed at a regularly scheduled meeting. The request shall describe what changes have been proposed and present any pe plans showing such changes.
- (2) The Conservation Commission first shall determine whether the requested clawarrants the filing of a new Notice of Intent or whether it is sufficiently mind be considered as an amendment to the original Final Order of Conditions. The Conservation Commission may in its sole and unreviewable discretion determine project change is minor only if:

- a. the purpose of the project has not changed,
- b. the scope of the project has not increased,
- c. the project still meets relevant standards in these regulations,
- d. resource areas are still protected, and
- e. the potential for adverse impacts to resource area values will not be increased.
- (3) If the Conservation Commission determines the proposed change(s) is not ment then it shall not issue an amendment, but instead require the filing of a new of Intent/application for permit if the permittee intends to continue to pursue modification.
- (4) Ministerial correction of obvious mistakes, such as citing a wrong file number typographical errors, may be accomplished by correction of the permit by the Commission or the Conservation Agent.
- (5) If the Conservation Commission determines that a new Notice of Intent is no necessary, the applicant shall at its expense publish newspaper notice of the proposed amendment in accordance with the Bylaw (Section 5). Abutter notification of the proposed amendment shall also be done by and at the expense of the applicant at the time. The notice must describe that an amendment to Order/permit is being requested, that the request is pending before the Commission for review, the date of the public hearing at which the Commission will consider the request for amendment, and where a copy of the application the requested change may be obtained. The Conservation Commission shall provide notice of the public hearing in accordance with the requirements of the Open Meeting Law, M.G.L. c. 30A, Sections 18 25.
- (6) Under no circumstances will the issuance of an Amended Order of Condition extend the effective date of the original Final Order of Conditions. The Amen Order shall run with the term of the original Order of Conditions or the effect date of an extended Order of Conditions.
- (7) The Amended Order should be issued on the form provided for an Order of Conditions/Permit, with the insertion of the word "Amended" and the amended

date. Amended Orders/Permit must be recorded with the registry of Deeds in same manner as Orders.

Section 19 - Certificate of Compliance

- A. Upon completion of the project or 60 days prior to the expiration of the Order of Conditions, whichever is first, the Applicant shall file a Request for Certificate of Compliance with the Commission.
- B. Upon written request by the applicant, a Certificate of Compliance shall be issued Conservation Commission within 21 days of receipt thereof, and shall certify if it so determines, that the activity or portions thereof described in the application for per and plans has been completed in compliance with the permit and any amendment (thereto. If approved by the Conservation Commission, the certificate of compliance be signed and issued by the Commission.
- C. Prior to the issuance of a Certificate of Compliance, a site inspection shall be made Conservation Commission or its agent, in the presence of the applicant or the appliance agent if applicant so desires.
- D. If the Conservation Commission determines, after review and inspection, that the has not been done in compliance with the permit, it shall refuse to issue a Certificate Compliance. Such refusal shall be issued within 21 days of receipt of a request for Certificate of Compliance, shall be in writing, and shall specify the reasons for den
- E. If a project has been completed in accordance with plans stamped by a registered professional engineer or a land surveyor or a registered landscape architect for landscaping projects, a written statement by such a professional person certifying substantial compliance with the plans and setting forth what deviation, if any, exist the plans approved in the permit shall accompany the request for a Certificate of Compliance. The Commission reserves the right to administer the requirements of paragraph in its sole discretion commensurate with the nature, scope, type, and comproposed project or activity.
- F. If the permit contains conditions which continue past the completion of the work, so maintenance or monitoring, the Certificate of Compliance shall specify which, if an such conditions shall continue. The certificate shall also specify to what portion of work it applies, if it does not apply to all the work regulated by the permit.

G. The Certificate of Compliance shall be recorded in the Land Court or Registry of I whichever is appropriate. Certification of recording shall be sent to the Conservati Commission on the form specified by the Commission.

Section 20 - Prohibited Materials

- A. The Commission has determined that the following materials are harmful to the rearea values of the Bylaw and therefore are prohibited in resource areas:
 - (1) Copper pipes on the exterior of any structure.
 - (2) Coal-tar based sealant (asphalt-emulsion based sealant is allowed).

Section 21 - Banks

A. Findings.

- (1) Banks are likely to be significant to wildlife, to plant or wildlife habitat, to put or private water supply, to groundwater supply, to flood control, to storm data prevention, to the prevention of pollution, to erosion control and sedimentati control, and to the protection of fisheries. Where banks are composed of con asphalt, or other artificial impervious material, said banks are likely to be significant to flood control and storm damage prevention. In these ways, Ban are important in mitigating the negative impacts of climate change.
- (2) Banks are areas where groundwater discharges to the surface and where, ur some circumstances, surface water recharges the groundwater.
- (3) Where banks are partially or totally vegetated, the vegetation serves to main their stability, which in turn protects water quality by reducing erosion and siltation. Partially or totally vegetated banks provide habitat for wildlife.
- (4) Banks may also provide shade that moderates water temperatures, as well as providing breeding habitat and escape cover and food, all of which are signif to the protection of fisheries. Banks which drop off quickly or overhang the water's edge often contain numerous undercuts which are favorite hiding speimportant species.

- (5) Banks act to confine floodwater during the most frequent storms, preventing spread of water to adjacent land. Because banks confine water during such so to an established channel, they maintain water temperatures and depths necessary for the protection of fisheries. The maintenance of cool water temperatures of warm weather is critical to the survival of many species. An alteration of a battant permits water to frequently and consistently spread over a larger and mushallow area increases the amount of property which is routinely flooded, as as elevating water temperatures and reducing fish habitat within the main claparticularly during warm weather.
- (6) Land bordering or within 100 feet of a bank is likely to be significant to the protection and maintenance of the bank, and therefore to the protection of the interests which these resources serve to protect.
- B. Definition, critical characteristics, and boundary.
 - (1) A bank is the portion of the land surface which normally abuts and confines a water body. It occurs between a water body and a vegetated bordering wetla and adjacent floodplain, or, in the absence of these, it occurs between a water body and an upland. A bank may be partially or totally vegetated, or it may be comprised of exposed soil, gravel, or stone.
 - (2) The physical characteristics of a bank, as well as its location, as described in foregoing Section 21.B(1), are critical to the protection of the interests speci in Section 21.A.
 - (3) The upper boundary of a bank is the first observable break in the slope or the mean annual flood level, whichever is higher in elevation. The lower boundar a bank is the mean annual low flow level or mean low water level.
- C. No activity, other than the maintenance of an already existing structure or Resour Enhancement, shall be allowed which will result in the building within or upon, removing, filling, or altering of a bank.
- D. Any activity which is allowed under this section on a bank or on land bordering or 100 feet of a bank shall not impair the following:
 - (1) The physical stability of the bank.
 - (2) The water-carrying capacity of the existing channel within the bank.

- (3) Groundwater and surface water quality.
- (4) The capacity of the bank to provide breeding habitat, escape cover and food fisheries.
- E. No work shall be performed within 50 feet of an inland bank that abuts an estimate wildlife and/or plant habitat area as designated on the most current map prepared Massachusetts Natural Heritage and Endangered Species Program.
- F. The above presumptions may be rebutted by a preponderance of the credible evide

Section 22 - Vegetated Wetlands (Wet Meadows, Mar Swamps, and Bogs)

A. Findings.

- (1) Vegetated Wetlands are likely to be significant to wildlife, to plant or wildlife habitat, to public or private water supply, to groundwater supply, to flood contour to storm damage prevention, to prevention of pollution, and to the protection fisheries. In these ways, vegetated wetlands are important in mitigating the negative impacts of climate change.
- (2) The plant communities, soils and associated low, often flat topography of vegetated wetlands remove or detain sediments, nutrients (such as nitrogen phosphorus) and toxic substances (such as heavy metals) that occur in runoff floodwaters.
- (3) Some nutrients and toxic substances are detained for years in plant root syst or in the soils. Others are held by plants during the growing season and relea as the plants decay in the fall and winter. This latter phenomenon delays the impacts of nutrients and toxins until the cold weather period, when such imp are less likely to reduce water quality.
- (4) Vegetated Wetlands are areas where groundwater discharges to the surface where, under some circumstances, surface water discharges to the groundwater.
- (5) The profusion of vegetation and the low, flat topography of Vegetated Wetlan slow down and reduce the passage of floodwaters during periods of peak flow

providing temporary floodwater storage, and by facilitating water removal through evaporation and transpiration. This reduces downstream flood crests resulting damage to private and public property. During dry periods the water retained in Vegetated Wetlands is essential to the maintenance of base flow in rivers and streams, which in turn is important to the protection of water q and water supplies.

- (6) Wetland vegetation provides shade that moderates water temperatures import to fish life. Wetlands flooded by adjacent water bodies and waterways provid food, breeding habitat and cover for fish. Fish populations in the larval stage particularly dependent upon food provided by overbank flooding which occur during peak flow periods (extreme storms), because most river and stream channels do not provide quantities of the microscopic plant and animal life required.
- (7) Wetland vegetation supports a wide variety of insects, reptiles, amphibians, mammals, and birds which are a source of food for important fish. Bluegills (Lepomis macrochirus), pumpkinseeds (Lepomis gibbosus), yellow perch (Perflavenscens), rock bass (Ambloplites rupestris) and all trout species feed upon nonaquatic insects, Largemouth bass (Micropterus salmoides), chain pickerel (Esox niger) and northern pike (Esox lucius) that feed upon small mammals, snakes, nonaquatic insects, birds, and amphibians. These wetlands are also important to the protection of rare and endangered wildlife species.
- (8) Vegetated Wetlands, together with land bordering or within 100 feet of a vegetated wetland, serve to moderate the effects of climate change and allew thermal shock, excessive heat, and particulate and dissolved pollution which result from degradation and/or runoff from structures and surfaces, which m detrimental to wildlife and fisheries downstream of the vegetated wetlands.
- (9) Land bordering or within 100 feet of a Vegetated Wetland is likely to be significant to the protection and maintenance of Vegetated Wetlands, and therefore to the protection of the interests which these resource areas serve protect.
- B. Definition, critical characteristics, and boundary.
 - (1) Vegetated Wetlands are freshwater wetlands, including both Bordering Veget Wetlands (i.e., bordering on freshwater bodies such as on creeks, rivers, street ponds, and lakes), and Isolated Vegetated Wetlands which do not border on a permanent water body. The types of freshwater wetlands are wet meadows,

marshes, swamps, bogs, and vernal pools. Vegetated Wetlands are areas who soils are saturated and/or inundated such that they support a predominance wetland indicator plants. The ground water and surface water hydrological regime, soils and the vegetational community which occur in each type of freshwater wetlands, including both bordering and isolated vegetated wetlands are defined under the Bylaw based on G.L. c. 131, § 40.

- (2) The boundary of Vegetated Wetland, whether Bordering or Isolated, is the line within which 50% or more of the vegetational community consists of wetland indicator plants and saturated or inundated conditions exist. Wetland indicate plants shall include but not necessarily be limited to those plant species iden in the Act.
- (3) The boundary shall be defined or delineated by the following:
 - a. Areas containing a predominance of wetland indicator plants are presumed to indicate the presence of saturated or inundated conditio Therefore, the boundary as determined by 50% or more wetland indicator plants shall be presumed accurate when:
 - All dominant species have an indicator status or of obligate, facultative wetland+, facultative wetland, or facultative wetland- and the slope is distinct or abrupt between the uplan plant community and the wetland plant community; or
 - ii. The Conservation Commission determines that sole reliance o wetland indicator plants will yield an accurate delineation.
 - b. When the boundary is not presumed accurate as described in (3)(a)(1 2.) or to overcome the presumption, credible evidence shall be submit by a competent source demonstrating that the boundary of Vegetated Wetlands is the line within which 50% or more of the vegetational community consists of wetland indicator plants and saturated or inundated conditions exist. The Conservation Commission must evaluate vegetation and indicators of saturated or inundated conditions if submitted by a credible source, or may require credible evidence of saturated or inundated conditions sufficient to support wetland indicators, which shall include one or more of the following:

- i. Groundwater, including the capillary fringe, within a major portion of the root zone;
- ii. Observation of prolonged or frequent flowing or standing surface water;
- iii. Characteristics of hydric soils.
- c. Where an area has been disturbed (e.g., by cutting, filling, or cultivation), the boundary is the line within which there are indicator saturated or inundated conditions sufficient to support a predominant of wetland indicator plants, a predominance of wetland indicator plant or credible evidence from a competent source that the area supported would support under undisturbed conditions, a predominance of wetlandicator plants prior to the disturbance or characteristic of hydric so
- C. No activity, other than the maintenance of an already existing structure or Resour Enhancement, which will result in the building within or upon, removing, filling, or altering of a Vegetated Wetland shall be permitted by the Conservation Commission
- D. No work shall be performed within 50 feet of a Vegetated Wetland that abuts on a estimated habitat area as designated on the most current map prepared by the Massachusetts Natural Heritage and Endangered Species.

E. Wetland Replication

(1) Introduction. Notwithstanding the foregoing Sections 22.C and 22.D, the Commission in its sole discretion may allow work in Vegetated Wetland which results in the loss of up to 5,000 square feet of Vegetated Wetland when such is replaced in a manner to ensure that the replacement area will provide a viewetland that replaces the functions and values of the area lost. Detailed projection is required to guarantee that wetland impacts are avoided to the max extent possible, to minimize absolutely necessary impacts and lastly, to successfully replicate losses that cannot be avoided. The design of replication areas shall carefully consider and incorporate to the extent practicable the Massachusetts Inland Wetland Replication Guidelines (DEP, 2002). Restoration of a degraded wetland may be accepted by the Commission as satisfying the foregoing replication requirement.

- (2) Required design criteria. Projects involving Wetlands Filling and/or permane Alterations shall meet the requirements of 310 C.M.R. 10.60(3) and 310 C.M 10.55(4) and the following requirements of the Commission:
 - a. The proposed replication area design must be submitted to the Commission for approval as part of the submittal of the project Notice Intent.
 - b. The replication area must be shown to sufficiently duplicate the functions and values of the wetland proposed to be altered.
 - c. The area of the wetland replication shall be at a 2:1 ratio to that area wetland loss.
 - d. The type of wetland created shall be similar to that lost in terms of physiology and function (e.g., similar plant species, hydrologic regime and soils) except where an improvement in physiology and function is proposed. The applicant will take into consideration the impacts of climate change on the replication of the wetland, especially in terms mitigation of extreme heat, resilience to increased/extreme storm ever vents, and changes in precipitation.
 - e. The replication area must have similar groundwater and surface elevation as the lost area.
 - f. The replication area must have a similar location relative to the bank the lost area when replicating bordering vegetated wetland.
 - g. The replication area must have an unrestricted surface hydraulic connection to the same waterbody or waterway as the lost area when replicating bordering vegetated wetland.
 - h. The location of the replication areas must be in the same general area the lost wetland. The location of replacement wetland areas shall be in the following order of preference: 1) on site, 2) within the same watershed as the lost area, or 3) within the Town of Arlington.
 - i. The replication area shall be constructed prior to alteration of the existing wetland and during the same growing season. When replicat involves transplanting plants and materials from existing wetland to t

replicated wetland, the replication area shall be constructed, to the e possible, immediately after alteration of the existing wetland. When transporting, all care shall be taken to prevent the transporting of invasive plants and invasive materials in soils.

- j. The proposed replication area must be clearly flagged for Commission site inspection before the Notice of Intent filing.
- k. The proposal for a replication area (submitted with the Notice of Inte shall include a detailed plan of the wetland replication showing:
 - Cross-section with indication of groundwater level, soil profile and thickness of organic soil in the existing and proposed wetlands;
 - Plant species detail, including number, type and location of species found in the replication area to be altered, and number types, and locations of species to be introduced into the replacement area;
 - iii. Detail of stabilization plans for replication area of Banks;
 - iv. Wildlife Habitat diversity plan;
 - v. Any trees shall be replaced in accordance with Section 25 of these Regulations, "Vegetation Removal and Replacement"; and
 - vi. Response to Climate Change Resilience standards in Section 32.
- F. If, after three growing seasons, the Commission determines that the replication are not satisfactorily developed into a wetland replacing the wetland area lost, the app or owner may be required to submit new plans to successfully replicate said lost w No Certificate of Compliance shall be issued until the Commission has determined satisfactory replication area has been completed at the end of three growing seaso
- G. The above presumptions may be rebutted by a preponderance of the credible evid

Section 23 - Land Under Water Bodies (Under Any Str Pond, or Lake)

A. Findings.

- (1) Land Under Water Bodies and Waterways is likely to be significant to wildlife public and private water supply, to groundwater supply, to flood control, to standard prevention, to prevention of pollution and to the protection of fishers these ways, Land Under Water Bodies and Waterways is important in mitigate the negative impacts of climate change.
- (2) Where Land Under Water Bodies and Waterways is composed of pervious material, such land represents a point of exchange between surface water ar groundwater.
- (3) The physical nature of Land Under Water Bodies and Waterways is highly variable, ranging from deep organic soils and fine sedimentary deposits to reand bedrock. The organic soils and sediments play an important role in the process of detaining and removing dissolved and particulate nutrients (such nitrogen and phosphorus) from the surface water above. They also serve as t for toxic substances (such as heavy metal compounds).
- (4) Land Under Water Bodies and Waterways, in conjunction with banks, serves confine floodwater within definite channel during the most frequent storms. Filling within this channel blocks flows which in turn causes backwater and overbank flooding during such storms. An alteration of Land Under Water Bo and Waterways that causes water to frequently spread out over a larger area lower depth increases the amount of property which is routinely flooded. Additionally, such alteration results in an elevation of water temperature and decrease in habitat in the main channel, both of which are detrimental to fish particularly during periods of warm weather and low flows.
- (5) Land under rivers, streams and creeks that is composed of gravel allows the circulation of cold, well-oxygenated water necessary for the survival of fish species. River, stream, and creek bottoms with a diverse structure composed gravel, large and small boulders and rock outcrops provide escape cover and resting areas for fish species. Such bottom type also provides areas for the

production of aquatic insects essential to fisheries.

- (6) Land under ponds and lakes is vital to a large assortment of warm-water fish during spawning periods. Species such as largemouth bass (Micropterus salmoides), smallmouth bass (Micropterus dolomieui), blue gills (Lepomis marcrochirus) pumpkinseeds (Lepomis gibbosus), black crappie (Promoxis nigromaculatus) and rock bass (Ambloplites rupestris) build nests on the lake bottom substrates within which they shed and fertilize their eggs.
- (7) Land within 100 feet of any Bank abutting Land Under Water Bodies is likely be significant to the protection and maintenance of land under a water body therefore, to the protection of the interests which these water bodies serve t protect, while also providing climate change resilience for the water body.
- B. Definition, critical characteristics, and boundaries.
 - (1) Land Under Water Bodies is the land beneath any creek, river, stream, pond, lake. Said land may be composed of organic muck or peat, fine sediments, ro or bedrock. Land Under Water Bodies may also include intermittent streams/drainages that are not identified on Arlington GIS wetland resource
 - (2) The physical characteristics and location of Land Under Water Bodies and Waterways specified in the foregoing Section 23.B(1) are critical to the prote of the interests specified in Section 23.A above.
 - (3) The boundary of Land Under Water Bodies is mean low water level.
- C. No activity, other than the maintenance of an already existing structure or Resour enhancement, which will result in the building within or upon, or removing, filling, dredging, or altering of Land Under a Water Body or within 25 feet of Land Under Water Body shall be done without written permission of the Commission.
- D. The Commission may allow activity on Land Under a Water Body or within 100 fee Land Under a Water Body only if it will not impair the following:
 - (1) The water-carrying capacity within the defined channel, which is provided b land in conjunction with the banks.
 - (2) Ground and surface water quality and quantity.

- (3) The capacity of said land to provide breeding habitat, escape cover or food f fisheries.
- (4) The capacity of said land to provide climate change resilience attributes.
- E. No work shall be performed within 50 feet of Land Under Water Bodies that abuts estimated habitat area as designated on the most current map prepared by the Massachusetts Natural Heritage and Endangered Species Program.
- F. Intermittent streams/drainages that are upgradient of wetland resource areas subjected protection under the bylaw (other than No Name Brook, Coolidge Road Brook, and Ryder Brook), do not have an AURA. The Applicant shall identify these areas at the locate them on a plan, avoid impacts to these areas, and mitigate for unavoidable is
- G. The above presumptions may be rebutted by a preponderance of the credible evid

Section 24 - Land Subject to Flooding (Bordering and Isolated)

A. Findings.

- (1) Bordering Land Subject to Flooding.
 - a. Bordering Land Subject to Flooding is an area which floods from a rise in a bordering waterway or water body. Such areas are presumed to significant to flood control, storm damage prevention, and protection surrounding land and other homes or buildings. In these ways, Border Land Subject to Flooding is important in mitigating the negative impart of climate change.
 - b. Bordering Land Subject to Flooding provides a temporary storage are for floodwater which has overtopped the bank of the main channel of creek, brook, river or stream or the basin of a pond or lake. During periods of peak runoff, floodwaters are both retained (i.e., slowly released through evaporation and percolation) and detained (slowly released through surface discharge) by Bordering Land Subject to Flooding. Over time, incremental filling of these areas causes increas in the extent and level of flooding by eliminating flood storage volume or by restricting flows, thereby causing increases in damage to public

and private properties and downstream resource areas.

- c. The hydrologic regime, plant community and structure, topography, s and proximity to water bodies or vegetated wetlands provide importa food, shelter, migratory, and overwintering areas, and breeding for wildlife.
- d. The hydrologic regime, surrounding plant community, topography, so and proximity to water bodies or vegetated wetlands allow vegetation successfully grow in these areas.
- e. The Commission has found that new parking areas in Bordering Land Subject to Flooding may result in a significant or cumulative effect up the resource area values protected by the Bylaw and has found that the facilities can result in the uncontrolled acute or chronic release of harmful materials into the resource areas protected by the Bylaw. The Commission has also found that using these structures for flood storal likely will result in the damage of vehicles and property under flooding conditions.
- (2) Isolated Land Subject to Flooding.
 - Isolated Land Subject to Flooding is an isolated depression or a close a. basin which serves as a ponding area for runoff or high groundwater which has risen above the ground surface. Such areas are likely to be locally significant to flood control and storm damage prevention. In the way, Isolated Land Subject to Flooding is important in mitigating the impacts of climate change. In addition, where such areas are underla by pervious material, they are likely to be significant to public or priv water supply and to groundwater supply. Where such areas are under by pervious material covered by a mat or organic peat and muck, the are also likely to be significant to the prevention of pollution. Isolated Land Subject to Flooding provides important breeding habitat for amphibians and some rare plants. Isolated Land Subject to Flooding provides a temporary storage area where runoff and high groundwate pond and slowly evaporate or percolate into the substrate. Filling cau lateral displacement of the ponded water onto contiguous properties, which may result in damage to said properties.

- b. Isolated Land Subject to Flooding, where it is underlain by pervious material, provides a point of exchange between groundwater and survey waters. Contaminants introduced into said area, such as road salts, fi easy access into the groundwater. Where these conditions occur and mat of organic peat or muck covers the substrate of the area, said materies to detain and remove contaminants which might otherwise entitle groundwater.
- c. The Commission has found that new parking areas in Isolated Land Subject to Flooding may result in a significant or cumulative effect up the resource area values protected by the Bylaw and has found that the facilities can result in the uncontrolled acute or chronic release of harmful materials into the resource areas protected by the Bylaw. The Commission has also found that using these structures for flood storal can result in the damage of vehicles and property under flooding conditions.
- B. Definitions, critical characteristics, and boundaries.
 - (1) Bordering Land Subject to Flooding.
 - a. Bordering Land Subject to Flooding is an area with low, generally flat topography adjacent to and inundated by floodwaters rising from brocreeks, rivers, streams, pond, or lakes. It extends from the banks of the waterways and water bodies; where a bordering vegetated wetland occurs, it extends from said wetland.
 - b. The topography and location of Bordering Land Subject to Flooding specified in the foregoing Subsection B(1)(a) are critical to the protection of the interests specified in subsection A(1) above.
 - c. The boundary of Bordering Land Subject to Flooding is the estimated observed maximum lateral extent of floodwater which will theoretical result or has resulted from the statistical 1%-annual-chance flood.
 - Said boundary shall be that determined by reference to the most recently available flood profile data prepared for the Town of Arlington within which the work is proposed under the Federal Emergency Management Agency's National Flood Insurance Program (NFIP). Said boundary, so determined, sha

- be presumed accurate. This presumption may be overcome only by credible evidence from a registered professional engineer or other professional competent in such matters.
- ii. Notwithstanding the foregoing, where NFIP profile data is unavailable or is determined by the Commission to be outdated, inaccurate or not reflecting current conditions, the boundary of Bordering Land Subject to Flooding shall be the maximum lateral extent of floodwater which has been observe or recorded or the Commission may require the applicant to determine the boundary of Bordering Land Subject to Floodin by engineering calculations which shall be:
 - (a) Based upon NOAA Atlas 14, Volume 10 (latest version) "NOAA Plus Plus" (see definition in Section 4).
 - (b) Based upon the standard methodologies set forth in U.S. Soil Conservation Service Technical Release No. 55, Urban Hydrology for Small Watersheds and Section 4 of the U.S. Soil Conservation Service, National Engineering Hydrology Handbook; and
 - (c) Prepared by a registered professional engineer or other professional competent in such matters.
- (2) Isolated Land Subject to Flooding.
 - a. Isolated Land Subject to Flooding is an isolated depression or closed basin without an inlet or an outlet. It is an area which at least once a confines standing water to an average depth of at least six inches and a surface area of 1,000 square feet or greater. Isolated Land Subject Flooding may be underlain by pervious material, which in turn may b covered by a mat of peat or muck.
 - b. The characteristics specified in the foregoing Subsection B(2)(a) are critical to the protection of the interests specified in Subsection A(2) above.

- c. The boundary of Isolated Land Subject to Flooding is the perimeter of the largest observed or recorded volume of water confined in said are
- C. No activity, other than the maintenance of an already existing structure which will in the building within or upon, or removing, filling, dredging, or altering of Land St to Flooding shall be conducted without written permission of the Conservation Commission.
- D. Per the regulations of the Floodplain District of the Arlington Zoning Bylaw, no construction, development, or filling shall be permitted in the regulatory floodway defined in the Middlesex County FIRMS.
- E. Any proposed activity within Bordering Land Subject to Flooding shall also be gove by all regulations of the Floodplain District of the Arlington Zoning Bylaw, the Tow Arlington Stormwater Bylaw and regulations, and the State Building Code (780 CN
- F. The Commission may permit activity on Land Subject to Flooding provided it shall result in the following:
 - (1) Flood damage due to filling which causes lateral displacement of water that otherwise be confined within said area;
 - (2) Adverse effect on surface or groundwater, where said area is underlain by pervious material;
 - (3) An adverse effect on the capacity of said area to prevent pollution of the groundwater, where the area is underlain by pervious material which in turn covered by a mat of organic peat and muck.
 - (4) A rise in the base flood elevation anywhere in the floodplain. This must be demonstrated through hydrologic and hydraulic analysis performed in accord with standard engineering practice performed by a registered professional.
 - (5) Reduction in the ability of the land to buffer more inland areas from flooding
 - (6)
- G. Any such activity shall provide compensatory flood storage for all flood storage volume that will be lost at each elevation. Compensatory flood storage shall be at a 2:1 rate minimum, for each unit volume of flood storage lost at each elevation. Compensatory flood storage shall mean a volume not previously used for flood storage shall have an unrestricted hydraulic connection to the same waterway or water both

with respect to waterways, shall be provided within the same reach of the river, storeek. Work within Bordering Land Subject to Flooding, including that work require provide the above specified compensatory storage, shall not restrict flows that cau increase in flood stage or velocity. No new parking areas or garages shall be used compensatory flood storage.

- H. The applicant shall take into consideration the impacts of climate change on the a proposed on land subject to flooding, especially in terms of the compensatory flood storage as a climate change resilience strategy.
- I. No work shall be performed within 50 feet of land subject to flooding that abuts are estimated habitat area as designated on the most current map prepared by the Massachusetts Natural Heritage and Endangered Species Program unless the App can demonstrate by a preponderance of credible evidence that the work will not have short term or long-term adverse effect on the resource area values protected by the Bylaw.
- J. The above presumptions may be rebutted by a preponderance of the credible evide

Section 25 - Vegetation Removal and Replacement

A. Findings

- (1) Vegetation in a resource area protected by the Bylaw is significant for wildlift wildlife habitat, water quality and control of flood and storm damage. Vegetation provides food, shelter, shade, sediment control, bank stabilization, biodiversity, pollutant uptake, and aesthetics. In these ways, Vegetation is important in mitigating the negative impacts of climate change. Plant size ordinarily is proportional to habitat value in that large, wooded trees are of greatest habitat value, followed by bushes, and then ground cover. Thus, an adequate quantity of vegetation must be maintained so that resource areas protected by the Bylaw can provide the resource area values protected by the Bylaw, including, but not limited to flood control, storm damage prevention, pollution abatement, wildlife protection, aesthetic value, and recreation.
- (2) Trees and other plants provide carbon sequestration and shade to offset heat island effects, thereby mitigating potential impacts of climate change when t replacement is equal to or greater than the loss.

B. Standards

- (1) No vegetation in a resource area protected by the Bylaw shall be damaged, extensively pruned, or removed without written approval by the Commission if approval is granted, with in-kind replacement (as defined below).
- (2) Extensive pruning is defined as removal of 20% or more of limbs or growth. I extensive pruning or removal of vegetation because of an Imminent Risk to P Health and Safety, in-kind replacement shall be to the extent practicable as determined by the Commission (See Section 10 of these Regulations for Emergency Certification or Section 7 of these Regulations for Administrative Review).
- (3) Vegetation replacement shall conform with Section 25.F and is not considered successful until the replacement plants have survived three full growing seasons.

C. Definitions

- (1) "In-kind replacement" means planting the same type of plant species (if native that was removed, extensively pruned, or damaged, of sizes and quantities as specified in Section 25.F, unless compelling evidence is presented in writing the Commission that explains why the resource area values under the Bylaw promoted through an alternative proposal.
 - a. An in-kind replacement should occur within the same resource area, another resource area located in close proximity on the project site. On non-invasive plant species that are "straight" species native to New England shall be planted as replacements unless justification is provided Native "straight" species are those that are not cultivars, nativars, or hybrids. Proposed plantings of cultivars, nativars or hybrids requires prior approval of the Conservation Commission after the applicant provides information as to whether the replacement or replacements provide food sources for pollinators, fruit and berries for birds and vegetative cover for small animals and/or erosion control on banks an slopes, and do not pose a threat to the native species. See Vegetation Replacement Guidance provided on the Arlington Conservation Commission website.
 - b. An "in-kind replacement" shall consider a combination of species type size, and surface area as measured by the drip line of the impacted

plant(s) or the diameter at breast height (dbh) for trees. A chart of acceptable replacement trees that are straight species native to New England is available on the Arlington Conservation Commission webs or from the Conservation Agent.

- D. In administering this standard, the Commission shall consider species selection, loand timing of the plantings, compliance with the Replacement Standards in Section and the following.
 - (1) Whether existing vegetation is in a state of irreversible decay, or invasive vegetation is present.
 - (2) Whether a bank or slope stabilization plan requires the restructuring of soils occupied by the vegetation to be removed.
 - (3) Whether the vegetation being removed is an aggressive, invasive non-native species as listed on a wetlands plant list acceptable to the Commission, such but not limited to that published by the Massachusetts Invasive Plant Advisor Group or the United States Fish and Wildlife Service.
 - (4) Ecological Restoration: The vegetation is being removed as part of a project whose primary purpose is to restore or otherwise improve the natural capacitance area to protect and promote the interests of the Bylaw; also called a Resource Area Enhancement project.
 - (5) Vegetation Replacement: The vegetation is being removed and replaced elsewhere on the project site or within the same resource area. This is subject the Commission's determination that such removal and replacement does no decrease the resource area's contribution to the resource area values protect the Bylaw.
 - (6) Imminent Risk to Public Health and Safety: The vegetation is an imminent rispublic health or safety or property as confirmed in writing and submitted to Commission by the Arlington Tree Warden, Fire Department, Public Safety Officer, or a certified arborist.
 - (7) Any proposed removal and replacement of vegetation complies with the Replacement Standards in Section 25.F, below.

- E. Application for Removal and Replacement: For all projects, the application for vegoremoval shall be submitted in writing as part of the application for permit or Notice Intent as described in the Bylaw and these regulations. At a minimum, the application will include:
 - (1) Existing site conditions, including:
 - a. a list of existing species in terms of number of individual plants and either height or dbh as specified in the tables below; and
 - a scaled diagram of the area identifying the resource areas (including AURA) and the project site.

(2) Rationale for Removal

a. Describe why the vegetation must be removed, addressing the items : Section 25.D, above, and how the interests of wetlands protection and climate change resilience are advanced by the revegetation plan.

(3) Planting Plan

- a. The proposed planting plan must be drawn to scale and identify properties the resource area and buffer zone and the project site. The Planting F must include the following information.
- b. The locations of each replacement species and the name (Latin and common), number, and sizes, as well as growth and transport method (e.g., containerized, balled-and-burlapped) with the size of the rootball/container in table form. Refer to Section 25.F below for vegetation replacement requirements.
- c. The estimated tree canopies after 15 years of growth, the specific narsizes, and locations of trees to be planted, and the total area of squar feet of the area shaded by tree canopies. In determining the shaded a measure the shaded area assuming that the shaded area is only that a directly under the drip line.
- d. How the plan complies with the American Association of Nurserymen (AAN) standards.

- e. The location of erosion control devices used during the restoration are description of the storage location of all motorized equipment.
- f. A tree protection plan summarizing all existing trees on site (includin dbh, species, extent of canopy, roots, and health) and specifying whet each tree is proposed to be protected or removed/replaced.
- (4) Plant Installation. Description of how the replacement of vegetation will be carried out, according to the replacement standards in Section 25.F, unless to Applicant demonstrates that the amount of replacement vegetation will not survive or contribute in the long-term to the resource area values. A rational the species, size, and replacement quantities must be provided if not consiste with these requirements.
- (5) Maintenance Plan. Description of how the restoration will be maintained and evaluated annually for three years and reported to the Commission each November by a qualified consultant. The Maintenance Plan shall be submitted the Commission for review and approval. The 3-year period begins in the first planting year if the planting occurs in the Spring; it begins the year after planting occurs in the Fall. The Commission reserves the right to require revised replanting plan, or additional plantings on an annual basis, if the revegetation plants are not successful.

F. Replacement Standards

- (1) Replacement Requirements for Trees and Shrubs
 - a. Tree and shrub replacement is allowed in the regulatory floodway.
- (2) Replacement Requirements for Trees.
 - a. Table F.1 indicates requirements for replacement quantity of trees be on size of the existing tree being removed.

Table F.1. Tree Replacement Requirements	
Existing Tree	Replacement Quantity
Deciduous db4 1.5" Evergreen hefg4t4'	0_3

Deciduous dbh 1.5" to 6" Evergreen height 4' to 6'	2
Deciduous dbh 6" to 10" Evergreen height 6' to 10'	3
Deciduous dbh > 10" Evergreen height > 10'	≥ 4 at discretion of Commission

¹dbh = diameter at breast height (4' 6" above the ground)

- Replacement Deciduous trees must be a minimum of 1.5" dbh (or caliper equivalent); replacement Evergreen trees must be a minimum 4' in height.
- c. If a plant is healthy with a single stem, well-shaped and bushy, has sufficient well-spaced side branches to give it weight and good bud qualities, and conforms to the requirements described in the latest edition of American Standard for Nursery Stock, published by the American Association of Nurseryman (ANN), then it is an acceptable plant.
- d. All replacement plants shall have ball sizes which are of a diameter a depth to encompass enough of the fibrous and feeding root system as necessary for the full recovery of the plant once planted.
- e. Plants over 14' should not be container grown.
- (3) Replacement Requirements for Shrubs
 - a. The replacement of shrubs (bushes) shall be with bushes and shrubs equivalent size and conform to the requirements described in the late edition of American Standard for Nursery Stock, published by the American Association of Nurseryman ("AAN").
- G. The Commission may require one or more of the following measures to protect vegetation during work:

²Evergreen trees because of their dense branches and needles are generally measured based on their heights applied trees shall include deciduous trees with a dbh of 1.5 inches and less (or caliper equivalent) and e 2 feet or less and shall be replaced at the discretion of the Commission. Replacement Deciduous trees must be a minimum of 4' in heights and 1.5" dbh (or caliper equivalent); replacement Evergreen trees must be a minimum of 4' in heights and 1.5" dbh (or caliper equivalent); replacement Evergreen trees must be a minimum of 4' in heights are generally measured based on their heights are generally measured based on the general heights are generally measured

- (1) Tree protection fencing Prior to commencing work, four (four-foot-high sections of snow fencing shall be installed and secured with wooden stakes (2 4" or 2" x 3") or 6-foot steel channel posts to create an enclosure at the dripl tree(s) or other distance as the site conditions allow to be protected. Such fer shall be securely erected, be vertically plumb and be maintained for the duration of the project and shall protect individual trees or groups of trees.
- (2) Tree protection blanket "BarkSavers" or similar armored blankets shall be installed and maintained according to product specifications.
- (3) No existing trees shall be used for crane stay, guys or other fastening.
- (4) Vehicles shall not be parked below the canopy of any existing tree or where damage may result to existing trees or tree roots.
- (5) Construction materials shall not be stored beneath the drip line of existing tr
- (6) Following completion of work, a certified arborist shall regularly monitor the health of trees on site for possible damage and take measures to repair any damage.
- (7) New tree protection New trees shall be supported with tree stakes between feet in length. The stakes shall be installed vertically such that one end is installed treetly into the ground and firmly anchored. The tree stakes shall be remove after one full year of growth. Alternative protection measures must be appropriately by the Commission or its agent.
- H. The Commission may require the placement of permanent signage and/or bounds granite or metal) to demarcate all or part of a resource area or vegetation mitigati
- I. The Commission reserves the right to administer the requirements of this section is sole discretion commensurate with the nature, scope, type, and cost of the propose project or activity.

Section 26 - Adjacent Upland Resource Area

A. Findings.

- (1) The Adjacent Upland Resource Area (AURA) is presumed significant to wildling plant, or wildlife habitat, to water quality, public and private water supply, to groundwater supply, to flood control, to storm damage prevention, to preven of pollution, to erosion control and sedimentation control, to natural character recreation, to protection of surrounding land and other homes or buildings at mitigation of potential climate change impacts.
- (2) Trees in the AURA provide additional important functions not provided by an other plant type. Trees provide shade to moderate water temperatures and lead of dissolved oxygen and water flow. Trees also mitigate heat island effects are sequester carbon as natural solutions to reducing greenhouse gases and proceed the change resilience. They serve as windbreaks to moderate wind stress shear during storms, and provide nesting, roosting and perching areas for bit and other wildlife. The transitional assemblage of trees, shrubs, and grounded (containing both wetland and upland elements) frequently found in AURAs have been found significant to the support of a greater number of native and specific wildlife species in the interior of resource areas, which they border.
- (3) Lands within the AURA are best left undisturbed or in a natural or vegetated state. These lands play a critical role in protecting the important functions provided by wetlands, waterways, and water bodies. Undisturbed AURAs:
 - a. Reduce runoff velocity and filter pollutants, which mitigate erosion are nutrient and other pollutant transport to wetland resources.
 - b. Enhance the capacity of resource areas to adapt and provide resilient challenges presented by climate change such as increased flooding and drought events.
 - c. Provide habitat for wildlife that also utilize wetlands, waterways, and water bodies.
- (4) There is overwhelming scientific consensus that significant physical, chemical biological alterations to AURAs will have significant physical, chemical, or biological impacts on associated or adjacent wetland resource areas such as creeks, streams, rivers, ponds, lakes, and wetlands. AURAs are important to protection of these resources because activities undertaken near wetlands at other resource areas protected by the Bylaw have a high likelihood of adverse impact upon those areas, either immediately, as a consequence of construction over time, as a consequence of daily operation or existence of the activities.

adverse impacts from construction activities, impervious surfaces, and use cainclude, without limitation, erosion, siltation, loss of groundwater recharge, lost of flood control or storm damage prevention, poor water quality, harm to will and wildlife habitat, and loss of resource resiliency for potential impacts of climate change. The ability of the AURA to protect a wetland resource, and to provide habitat, increases with buffer width and continuity.

- (5) Generally, vegetated buffers within the AURA and next to the adjacent resou area of less than 25 feet wide are ineffective in protecting adjacent wetlands providing wildlife habitat functions. Vegetated buffers often wider than 25 fe are necessary to provide wildlife habitat and to protect adjacent resource are from continuing activities such as inputs of sediments and nutrients which adversely affect water quality, to protect from direct human disturbance, to protect sensitive species from adverse impacts, and to protect adjacent resource areas from the adverse effects of climate change and changing water quality including but not limited to nutrient concentrations, temperature, salinity, are dissolved oxygen concentrations.
- (6) The effectiveness of buffers in removing pollutants is dependent upon slope, condition, pollutant type, flow patterns, vegetation, exposure to sunlight, with and upland land use. Steep slopes increase the velocity at which water traves through a buffer, thereby decreasing the amount of time that rain can filter through soil and vegetation. For removal of most pollutants, flat slopes with gradients of less than 5% are desirable. Increasing buffer width is common vegetations are steeper than 15%.
- B. Definition and Boundary. The AURA is the area adjacent to a resource area specific Section 2, A(1) through (4) and is the land within 100 feet (measured horizontally) of the aforesaid resource areas.
- C. Evaluation of Alternatives to Work in AURA. Work and activity in the AURA shall be avoided and discouraged, and practicable alternatives pursued that achieve the prepurpose. Where work is proposed in the AURA, the Applicant shall conduct an Alternatives Analysis to prove by a preponderance of evidence that the project as proposed has met the standard of avoid, minimize, and mitigate and there are no practicable alternatives to the proposed project with materially less adverse or curreffects on the interests protected by the Bylaw, and that the work, including proposition will have no significant adverse impacts.

- (1) Definition of Practicable. An alternative is practicable and substantially equivalent economically if it is available and capable of being done after taking into consideration costs, existing technology, proposed use, and logistics, considering overall project scope or purpose. The Commission shall consider practical alternative options that were available to the Applicant but appear precluded due to self-imposed hardships and constraints (e.g., subdivision of or lot, roadway and drainage layouts engineered without proper regard to im on Wetland Resource Areas protected by the Bylaw, or unsubstantiated life-cor maintenance costs). The four factors to be considered are:
 - a. Costs, and whether such costs are reasonable or prohibitive to the own Higher or lower costs taken alone will not determine whether an alternative is practicable. Applicants should not submit, nor should the Commission request, financial information of a confidential nature, sure as income tax records or bank statements. The Commission may request documentation of costs but may also base its determinations on descriptions of alternatives, knowledge of alternative sites, information provided by qualified professionals, comparisons to costs normally associated with similar projects, or other evidence. Any documentation of costs should be limited to that required for a determination of whether costs are reasonable or prohibitive.
 - Existing technology, which includes best available measures (i.e., the most up-to- date technology or the best designs, measures, or engineering practices that have been developed and are commercially available);
 - c. The Proposed Use. This term is related to the concept of project purp In the context of typical single-family homes, the project purpose (construction of a single-family house) and the proposed use (family home) are virtually identical. In the context of projects where the purpose implies a business component, such as residential subdivision commercial and industrial projects, the proposed use typically require economic viability. In the context of publicly financed projects, the proposed use includes consideration of legitimate governmental purposes.
 - d. Logistics. Logistics refers to the presence or absence of physical or le constraints. Physical characteristics of a site may influence its development. Legal barriers include circumstances where a project cannot meet other applicable requirements to obtain the necessary

permits at an alternative site. An alternative site is not practicable if special legislation or changes to municipal zoning or zoning variance would be required to achieve the proposed use or project purpose.

- (2) Scope of Alternative Analysis. The purpose of evaluating project alternatives locate activities so that impacts to the AURA are avoided to the extent practicable. The applicant shall submit information to describe sites and the both for the proposed location and alternative site configurations and location. The Applicant shall have the burden of proof for providing credible evidence the work proposed will not have unacceptable significant or cumulative effect upon resource area values protected by the Bylaw. Failure to provide adequate evidence shall be sufficient cause for the Commission to deny a permit or grapher with special conditions.
- (3) The Alternative Analysis shall include at a minimum:
 - a. An alternative that does not alter the AURA to provide baseline data fo evaluating other alternatives, and
 - b. An assessment of alternatives to both temporary and permanent impact the AURA including configurations that would avoid, minimize, and mitigate disturbance and alteration by either moving the proposed projects outside of or farther away from wetland resources or reducing the size the proposed project.

It shall also include a description of all reasonable identified alternatives that considered by the Applicant along with the reasons why such alternatives we considered inadequate, unworkable, or inadvisable. The level of detail of information shall be commensurate with the scope of the project and the practicability of alternatives. Where an applicant identifies an alternative who can be summarily demonstrated to be not practicable, an evaluation is not required. The Applicant shall carry the burden of proof for demonstrating to Commission that activities in the AURA are necessary.

D. The Commission may, in its discretion, allow temporary, limited, or permanent disturbance as appropriate and consistent with this Section if the Applicant proves there are no practicable alternatives to the project with materially less adverse and cumulative effects on the interests protected by this bylaw and convinces the Commby a preponderance of evidence that the area or part of it may be altered without the values protected by this Bylaw taking into consideration the characteristics of AURA, including but not limited to the following:

- (1) slope
- (2) soil characteristics
- (3) drainage patterns
- (4) extent and type of existing native vegetation
- (5) extent and type of invasive vegetation
- (6) amount of impervious surface
- (7) wildlife and wildlife habitat
- (8) intensity and extent of use
- (9) intensity and extent of adjacent and nearby uses
- (10) capacity to provide resilience to climate change
- E. This approach is intended to allow flexibility for use of property while maintaining necessary levels of protection of the resource values protected by the Bylaw.
- F. No activities or work, other than passive passage and resource area enhancement, permitted within the first 25 feet of the AURA (measured horizontally from a resource area specified in Section 2, A(1) through (4). Except as part of Resource Area Enhancement or an Ecological Restoration Project, no vegetation may be disturbed leaf litter and natural debris shall remain in place. This No-Disturbance area shall minimum contain the same amount of area of undisturbed and natural vegetation a pre-project state. A previously disturbed or previously developed 25-foot area shall restored to a naturally vegetated state to the greatest extent practicable. Depending conditions including but not limited to slopes greater than 15% on highly erodible hydrologic conditions likely to promote significant erosion, affect soil permeability other impact potential the Commission may require a wider undisturbed buffer.
- G. No new structure(s) shall be placed in the first 50 feet of the AURA measured horizontally from a resource area specified in Section 2, A(1) through (4). The Commission may allow new structures within the first 50 feet if the project is deen overall improvement of the resource area. Depending upon site conditions, including

not limited to slopes greater than 15% on highly erodible soils, or hydrologic condilikely to promote significant erosion, affect soil permeability or other impact poten the Commission may require new structures to be setback greater than 50 feet.

H. In the case of new lots or work in undeveloped lots when partial encroachment into AURA is unavoidable, in addition to the requirements noted above, the Applicant matigate the intrusion by creating or expanding a vegetated buffer within the first of the Adjacent Upland Resource Area on the lot at the discretion of the Commission unavoidable encroachment, as mitigation, the Commission may require improvement remaining undisturbed AURA function.

I. Impervious surface.

- (1) The total area of impervious surface within the AURA shall not increase over existing total area unless the Commission in its sole discretion determines, b on sufficient proposed mitigation, that there is no permanent, significant imp on Resource Area values.
- (2) Impervious surfaces shall not intrude farther into the AURA than pre-project conditions unless the Commission in its sole discretion determines that the to area of impervious surface is significantly decreased, or other sufficient mitigation is provided that serves to protect the resource area values. Impersurface shall be kept as close as possible to the outer (upland) boundary of the AURA.
- (3) Work in the AURA shall not adversely affect the hydrology of the site including runoff rates, volume, water quality, flood storage capacity, or flow paths.
- J. For permitted projects in the AURA, landowners shall follow 330 CMR 31.00 Plant Nutrient Application Requirements for Agricultural Land and Land Not Used for Agricultural Purposes.

K.

L. Certain Proposed Activities in AURA. The AURA should be left intact in a naturally vegetated state to the maximum extent practicable and as provided in these regular However, there are some activities that may be permitted by the Commission that likely to have a significant or cumulative effect on the resource area values of the I nor are they expected to have a significant effect on the resource area resilience to

climate change, provided the other provisions of these Regulations are met. These proposed activities are addressed in Section 7: Administrative Review.

M. The above presumptions may be rebutted by a preponderance of the credible evidence

Section 27 - Vernal Pool and Its Associated 100-Foot Adjacent Upland Resource Area

A. Findings

- (1) Vernal Pools and their associated 100-foot No-Disturbance Zones are likely to significant to the protection of wildlife habitat and rare plant and animal hab Vernal Pools constitute a unique and increasingly rare type of wetland that is inhabited by many species of wildlife, some of which are completely depended on Vernal Pools and their associated habitat for their survival. Areas in the immediate vicinity of the Vernal Pool (i.e., 100-foot Adjacent Upland Resource Area) provide these species with important non-breeding habitat functions, so as migratory pathways, feeding, shelter, and over-wintering sites. Many other species utilize Vernal Pools and their associated Adjacent Upland Resource Area for breeding and non-breeding functions, although such species are not limit this type of wetland. The protection of Vernal Pools and their associated Adjacent Upland Resource Area are essential for the survival of wildlife species that depend on these unique and threatened resource areas. Vernal Pools need no state certified to be protected under the Bylaw or these Regulations.
- (2) The extreme edges of Vernal Pool habitat represent one of the most ecologic valuable portions of these habitats. Shallow water at the edges of a pool general is the first to thaw in the spring. This provides early access to the pool for the earliest breeding species. The shallow water zones also tend to be significant warmer than the deeper portions of a vernal pool throughout the spring. Egg masses of early breeding amphibians benefit from the warmer water temperature at the pool edges that promote rapid egg development.

B. Definition, Critical Characteristics and Boundary:

(1) Vernal Pools exhibit a tremendous variation in physical, geographic, hydrolog and vegetative conditions, and therefore, for the purposes of these Regulation these conditions are not considered reliable criteria for their identification. A Vernal Pool is a temporary freshwater body, which, in most years holds water

a minimum of two (2) months and is free of established, reproducing fish populations, and is protected by these Regulations if it meets any of the follo criteria:

- a. The Vernal Pool contains evidence of the presence of any one (1) of the following obligate indicator species: Spotted Salamander, Blue-Spotted Salamander, Jefferson Salamander, Marbled Salamander, Wood Frog Fairy Shrimp; or
- b. In the absence of any obligate indicator species, the Vernal Pool contains evidence of two (2) of any of the following facultative indicat species: Spring Peeper, American Toad, Green Frog, Pickerel Frog, Gray Tree Frog, Four-Toed Salamander, Spotted Turtle, Caddisfly larvae or cases of Caddisfly larvae, Dragonfly or Damselfly larvae or shed skins (exuvia) of Dragonfly or Damselfly larvae, adults, juveniles or shells of either Fingernail Clams or Amphibious, air-breathing Sna
- (2) The boundary of Vernal Pool is the lower of:
 - a. the maximum elevation of a topographic depression that holds water a minimum of two (2) continuous months each year; or
 - b. the maximum observed or recorded water level in a topographic depression.
- (3) The boundary of vernal pool may be defined differently for the purpose of statement federal protection.
- (4) The boundary of vernal pool is not established when a vernal pool certification number is issued by the Commonwealth.
- C. Timing of Evidence Collection: Many of the indicators of Vernal Pool habitat are seasonal. For example, certain salamander egg clusters are found only between late March and late May; Wood Frog chorusing occurs only between late March and late May, and then only at night. Consequently, failure to find evidence of breeding mu tied explicitly to those periods during which the evidence is most likely to be available.
- D. Accordingly, in the case of challenges to the presumption of Vernal Pool habitat, to Commission may require that the determination be postponed until the appropriate

period consistent with the evidence being presented. The Commission may also redits own site visit(s) as necessary to confirm the evidence.

- E. Presumptions of Significance for Adjacent Upland Resource Area to a Vernal Pool: Where a proposed activity involves the removing, filling, dredging, or altering of a Vernal Pool or its 100-foot Adjacent Upland Resource Area, the Commission shall presume that the Vernal Pool and its 100-foot Adjacent Upland Resource Area is significant to the protection of wildlife habitat and rare plant and animal habitat.
- F. Performance Standards for 100-foot Adjacent Upland Resource Area: Unless the presumption set forth in Section 21.D of these Regulations is overcome, the following standards shall apply to Vernal Pools and their 100-foot Adjacent Upland Resource
 - (1) 100-foot Adjacent Upland Resource Area: No activity shall be permitted with 100 feet of the delineated edge of a Vernal Pool, or in the case of a wetland resource area that encompasses the pool, within 100 feet of the delineated e said wetland resource area. Prohibited activities include, but are not limited grading, landscaping, vegetation control, pruning, cutting, filling, excavation roadway construction and/or driveway construction.
 - (2) Adjacent Upland Resource Area to Vernal Pool Demarcation: To maintain the perpetual integrity of the 100-foot Adjacent Upland Resource Area and to en that there will be no encroachments into this Area by the applicant or future owners of the subject property, the Commission may require the Adjacent Up Resource Area to be marked on the ground, at the applicant's expense, with permanent markers. These markers shall be made of weather resistant mate (e.g., granite, concrete, other), and the Commission shall determine their number location, and size. The Commission may require the maintenance of such main any Certificate of Compliance issued for the project.

Section 28 - Riverfront Area

A. The Commission accepts and adopts the definitions, requirements, and performand standards for Riverfront Area as specified in the Massachusetts Department of Environmental Protection's Wetlands Regulations in 310 C.M.R. 10.58.

Section 29 - Variances

A. The Conservation Commission may, in its discretion, grant variances from the ope of one or more of the provisions of the Bylaw, or the rules and regulations promulg

thereunder. Such variances are intended to be granted only in rare and unusual caupon a showing of clear hardship relating to the subject premises if the requested not granted.

- B. The standards as set forth herein shall be the sole basis upon which a variance sha granted.
- C. Applicants shall file a written request for variance at the same time as or as soon a possible an application (Notice of Intent) for a permit is filed with the Commission in any event, prior to the close of the hearing on said application. Such variance reshall be made in writing and shall be a separate writing from the application or reforms.
- D. At any time after filing of the variance request, but in no event less than ten calendarior to the date of commencement of the public hearing at which the variance request to be considered, the Applicant or his or her or its representative shall submit to the Commission and copies to each Commission member (including associate member written statement in support of the variance request. Such written statement shall but not be limited to the following items:
 - (1) A brief statement of the relief sought;
 - (2) A description of all reasonably identifiable alternatives to the Applicant's pro that were considered by the Applicant and that would avoid or minimize the necessity of the requested relief, along with the reasons why such alternative were deemed to be inadequate, unworkable, or inadvisable;
 - (3) A statement of all efforts that will be undertaken to minimize impact upon resource areas and buffer zones arising out of the work proposed;
 - (4) Detailed plans for any mitigation measures proposed;
 - (5) Adequate engineering and expert evidence to permit the Commission to eval the basis for the Applicant's contentions in support of the variance requested
 - (6) Any and all relevant information which the Applicant wishes the Commission consider in deliberating the variance request.

- E. A variance may be granted only for the following reasons and upon the following conditions:
 - (1) The Conservation Commission may grant a variance upon a clear and convin showing by the Applicant that any proposed work, or its natural and consequing impacts and effects, will not have any adverse effect upon any of the interest protected in the Bylaw, and that there are no reasonable conditions or alternative that would allow the work to proceed in compliance with these regulations a the Bylaw. It shall be the responsibility of the Applicant to provide the Conservation Commission with any and all information that the Commission request orally or in writing, in order to enable the Commission to ascertain s adverse effects, and the failure of the Applicant to furnish any information that has been so requested shall result in the denial of a request for variance.
 - (2) The Conservation Commission may grant a variance from these rules and regulations when necessary to avoid so restricting the use of the property as constitute a taking of private property without compensation. The Commission may request an opinion from Town Counsel or other legal consultant at the expense of the Applicant as to whether the application of the Bylaw to a part case will result in a taking of property without compensation.

Section 30 - Areas of Critical Environmental Concern

- A. Any areas within the Town of Arlington which have been designated as Areas of Cr Environmental Concern by the Secretary of Energy and Environmental Affairs, Commonwealth of Massachusetts, are so designated due to the particularly unique environmental factors that affect such areas and that highlight the unique importaeach area so designated.
- B. As a result of such designation, it is incumbent upon the Commission to be even m diligent in its review of projects proposed within such areas. The highest standards scrutiny as to the impact of any proposal are required shall be exercised by the Commission.
- C. Further, close scrutiny shall be given by the Commission to any proposals involvin application of new pavement or newly installed other impervious materials within a area less than 100 feet from Bordering Vegetated Wetland, Bank, Beach, and Meach

Section 31 - Wildlife Habitat

A. The Town of Arlington accepts and adopts the definitions, requirements, and performance standards for wildlife habitat as specified in the Massachusetts Depart of Environmental Protection's Wetlands Regulations in 310 CMR 10.00.

Section 32 - Climate Change Resilience

- A. Findings. The impacts of climate change can adversely affect each Resource Area' ability to provide and promote the resource area values protected by the Bylaw. Reas are critical to building a community's resilience/adaptation to the impacts of climate change due to their ability to provide for flood control, storm damage prevextreme temperature mitigation, and other Resource Area Values including but not limited to water supply protection; pollution prevention; erosion and sedimentation control; protection of surrounding land and other homes or buildings; wildlife, plan aquatic species protection; habitat protection; and the protection of the natural change or recreational values of the wetland resources.
- B. Definitions. See definitions of "adaptation", "alter", "impacts of climate change", "extreme heat", "resource area values", "NOAA 14 Plus Plus", and other climate change related definitions in Section 4 above.
- C. The Applicant shall, to the extent practicable and applicable as determined solely Commission, integrate considerations of adaptation planning into their project to protect climate change resilience to protect and promote resource area values into the fut These considerations are especially important in Land Subject to Flooding (floodpl and Riverfront Area and other Resource Areas which protect the interest of Flood and Storm Damage Prevention, including Adjacent Upland Resource Areas. These Resource Areas may be directly impacted by extreme weather events expected to prevalent or more intense due to climate change, in surface runoff of pollutants, are wildlife habitat due to changes in temperature.
- D. The Applicant shall, to the extent practicable and applicable as determined solely Commission, ensure that the project is consistent with other local and state guidely best practices, and policies concerning climate change resilience, including, but no limited to municipal vulnerability preparedness, green infrastructure, and nature-baselutions.

- E. Each project shall include at least the following measures to mitigate climate chan impacts and adapt to changed climatic conditions. The Applicant shall address the following in writing in their application:
 - (1) Describe project design considerations and measures to limit storm and flood damage during extended periods of disruption and flooding as might be expering extreme weather events, using the FEMA 500-year flood elevation to represent the weather event flood levels, depending on the size and nature of the project. Project design considerations may include but not be limited to stormwater mitigation measures sized for increased precipitation expected declimate change, 2:1 compensatory flood storage replacement, and 2:1 or high tree replacement/plantings, See Land Subject to Flooding Section 24, Vegeta Wetlands Section 25, Adjacent Upland Resource Area Section 26, and Stormwater Management Section 33 of these Regulations.
 - (2) Calculate project stormwater surface runoff that is expected to increase due extreme weather events using NOAA 14 Plus Plus rainfall data (see definition Section 4) and how this will be managed and mitigated to prevent pollution (including nutrients from fertilizers, roadway runoff, etc.) from entering the resource area in the future, with consideration of eliminating or decreasing impervious surfaces as much as feasible. Project design considerations may include but not be limited to stormwater mitigation measures sized for increase precipitation expected due to climate change. See Stormwater Management Section 33 of these Regulations.
 - (3) Describe project vegetation/planting plans and any other measures to improve resiliency of the resource areas to provide resource area values including but limited to wildlife habitat; that is, to enable resource areas to withstand extra precipitation/rainfall changes (drought and excess) and extreme temperature including extreme heat due to climate change. Project design considerations include but not be limited to diversity and abundance of replacement plantin and consideration of shading and cooling. See Vegetation Removal and Replacement Section 25 of these Regulations.
 - (4) Describe project considerations and measures to avoid, minimize, and mitigate extreme heat effects in resource areas. Project design considerations may include the but not be limited to reducing impervious surfaces, increasing or maintaining naturally vegetated surfaces, increasing tree canopy, consideration of shading structures.

(5) Describe any additional measures to avoid, minimize, and mitigate for climate change impacts and adapt to changed climatic conditions that are in addition (1) through (4) above.

Section 33 - Stormwater Management

- A. Nothing in these Regulations is intended to replace or be in derogation of the requirements of the Wetland Regulations (310 CMR) or the Town of Arlington's Stormwater Management Bylaw (Article 15) and Stormwater Management Rules a Regulations administered by the Town of Arlington's Engineering Division. In the of conflict between the regulations, the more stringent provisions shall apply.
- B. Should a project require a Stormwater Permit under Article 15 and approval of the Conservation Commission, the Applicant shall obtain approval under Article 15 pri the closing of a public hearing by the Conservation Commission. Should an Applicate fail to obtain such approval, the Conservation Commission shall deny the permit for project.
- C. Stormwater management design for all projects (including projects that do not rec Stormwater Management Report under 310 CMR 10.05 (6)(k) or projects that are under Arlington's Stormwater Management Rules and Regulations) specified in a r for determination of applicability or an application for a permit shall accomplish th following:
 - (1) Not exacerbate or create flooding conditions and shall not result in an increating the peak rate of stormwater runoff over existing conditions during storm even
 - (2) Reduce stormwater pollution to the maximum extent possible. Low Impact Development techniques listed in the Massachusetts Stormwater Handbook, BMPs) should be prioritized for their positive impact on overall site climate change resilience, improvements to water quality, and ability to handle wate quantity. Depending upon the type of project proposed, this may include but be limited to reduction in impervious surfaces, bio-retention (rain gardens), a infiltration systems.
 - (3) Have a written operation and maintenance plan to inspect, properly maintain routine or minor repair installed BMPs after project completion to ensure the functioning according to the design intent in perpetuity.

- D. The rainfall amounts used for design and analysis shall be based on the best curre available rainfall data, which the Commission determines is NOAA Atlas 14, Volum (latest version) NOAA 14 Plus Plus (see definition in Section 4), or its successor.
- E. The Applicant shall provide runoff plan and calculations based on the 2-, 10-, 50-, a 100-year storm events.
- F. Calculations shall show existing and proposed runoff conditions for comparative purposes.

G. Inspections

- (1) When soil testing is required for infiltration basin placement, a witness from Conservation Commission or Engineering Division must be present and attest writing that the soil testing was performed according to accepted practices.
- (2) At least seven days prior to installation of subsurface stormwater BMPs, the Applicant shall notify the Conservation Agent of the date of installation so the the Conservation Commission or Engineering Division can attest in writing the the subsurface stormwater BMP was properly installed. Such written attests shall be provided to the Conservation Commission within seven days of the inspection.
- H. The requirements of this section shall be administered by the Commission comme with the nature, scope, type, and cost of the proposed project or activity.

Section 34 - Ecological Restoration Projects

A. The Commission may allow ecological restoration projects as defined and provided 310 CMR 10.00.

Section 35 - Severability; Compliance with Court Deci

- A. The invalidity of any section or provision of the Bylaw or of these regulations shall invalidate any other section or provisions thereof, nor shall it invalidate any permit previously has been issued.
- B. If any Court of the Commonwealth shall invalidate any provisions of the Bylaw or of these regulations, the Conservation Commission may promulgate additional rules a

regulations or present to the next Town Meeting after such invalidations, amendmenthe Bylaw or regulations which are designed to comply with any Court decision invalidating such provisions or regulations, as the case may be.

Section 36 - Effective Date

A. The effective date of these rules and regulations shall be *March 16, 2023*, and the provisions of these rules and regulations shall apply to all work performed, and all applications or requests for determination of applicability received on or after that

[Editor's notes: Regulations first approved January 4, 2001; revised: June 2001, September 2001; February 2005; April 7, 2005; September 16, 2010; January 20, 2011; June 4, 2015, March 1, 2018.]